



QUALCOMM Incorporated

5775 Morehouse Drive
San Diego, CA 92121-1714

www.qualcomm.com

Via Email and Mail

February 23, 2018

Mr. Thomas Goode, ATIS General Counsel
ATIS
1200 G. Street, NW
Suite 500
Washington, DC 20005
Email: patents@atis.org

RE: Updated and corrected commitment to previous disclosures made by Qualcomm Incorporated on June 25, 2015, October 3, 2016 and February 21, 2018

Dear Mr. Goode:

Our apologies for using the wrong form for our ATIS disclosures dated June 25, 2015, October 3, 2016 and February 21, 2018. Qualcomm hereby agrees that in addition to the promises and representations made in association with these three earlier disclosure forms, Qualcomm commits to the following statement for each of those earlier disclosures.

The Party submitting this Statement agrees that the patent holder (or party authorized to make assurances on its behalf) will, in any documents transferring ownership of patents subject to the assurance, include provisions sufficient to ensure that the commitments in the assurance are binding on the transferee, and that the transferee will similarly include appropriate provisions in the event of future transfers with the goal of binding each successor-in-interest. This assurance is intended to be binding on successors-in-interest regardless of whether such provisions are included in the relevant transfer documents.

Executed this 23 day of February, 2018, for Qualcomm Incorporated, by:

Michael Atlass, Sr. Director and Legal Counsel
Qualcomm Incorporated.

Please confirm receipt of this letter at your earliest convenience via email to my attention at ip.disclosure@qualcomm.com. If you have any questions or concerns, please call 858-587-1121.

Michael Atlass
Sr. Director, Legal Counsel
California Registered In-House Counsel

MA/go



QUALCOMM Incorporated

5775 Morehouse Drive
San Diego, CA 92121-1714

www.qualcomm.com

Via Email and Mail

October 3, 2016

Mr. Thomas Goode
ATIS General Counsel
ATIS
1200 G. Street, NW
Suite 500
Washington, DC 20005
Email: patents@atis.org

RE: Patent Holder Statement on behalf of QUALCOMM Incorporated for
M.1457-13

Dear Mr. Goode:

Please find attached Qualcomm Incorporated's Patent Holder Statement for M.1457-13.

Please confirm receipt of this Statement at your earliest convenience via email to my attention at ip.disclosure@qualcomm.com. If you have any questions or concerns, please contact me directly at 858-587-1121. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read 'T. Rouse', with a long horizontal line extending to the right.

Thomas R. Rouse
VP & Legal Patent Counsel
Standards Policy & Compliance
Qualcomm Incorporated

TR/gg

ALLIANCE FOR TELECOMMUNICATIONS INDUSTRY SOLUTIONS

PATENT HOLDER STATEMENT

Please return via mail, email (scanned with signature), or fax to:

General Counsel

ATIS

1200 G Street, N.W., Suite 500

Washington, D.C. 20005 USA

Fax: +1 (888) 874-0973

Email: patents@atis.org

This form may be used consistent with ATIS' Intellectual Property Rights Policy, which may be found in ATIS Operating Procedures (Version 5.1), Section 10.4 by the holder of a patented invention that may be required for adopting, complying with or otherwise utilizing an ATIS-developed American National Standard or other ATIS deliverable.

The use of this form is voluntary.

Neither ATIS nor any of its Forums or Committees shall be responsible for and expressly take no position concerning the information reflected in the form, or as respects the validity, enforceability or scope of any patented invention referenced in or identified in the form, or concerning the relevance or applicability of any such patented invention to an ATIS-developed American National Standard or other ATIS deliverable.

The use of this form, or its submission to ATIS, is not and shall not be construed as the grant of a license in connection with any patented inventions identified. Nor shall this form or its use create or imply any obligation by the holder of a patented invention to conduct a patent search. To the extent that a license may be sought from the holder of the patented invention identified in this form, the discussion and negotiation of all license terms shall occur directly between the holder of the patented invention and each prospective licensee outside the deliberations of ATIS and its Forums and Committees.

No discussion or negotiation of license terms is permitted in any Forum or Committee. For further information regarding the licensing of any patented inventions identified in this Statement, please contact the person identified in Section B.

A. PARTY SUBMITTING THE STATEMENT

Legal Name (e.g. XYZ Corp.):

QUALCOMM Incorporated

B. CONTACT FOR LICENSING INFORMATION

Contact Name:	Thomas R. Rouse	Title:	VP & Legal Counsel, Standards Policy & Compliance
Department:	QTL		
Telephone:	858-587-1121	Fax:	858-651-0933
Email:	ip.disclosure@qualcomm.com		

C. ATIS-DEVELOPED AMERICAN NATIONAL STANDARD OR OTHER ATIS DELIVERABLE

Please complete a separate Patent Holder Statement for each standard/deliverable.

ATIS Forum/Committee:	WTSC
ATIS Document Number:	See attached list
Title:	M.1457-13
Other tracking identifiers*, if appropriate:	

*Note: If the standard/deliverable information is not available, please provide available tracking identifiers (e.g., Committee and Issue number, working text number, contribution number).

D. LICENSING ASSURANCE

In accordance with Section 10.4 of the ATIS Operating Procedures, the Party submitting this Statement hereby declares the following (*check box 1, 2a, 2b or 2c and either box 3a or 3b*):

- ☐ 1. The Party submitting this Statement does not hold or does not currently intend holding any invention the use of which would be required for compliance with the ATIS-developed American National Standard or other ATIS deliverable identified in Section C.
- ☐ 2. The Party submitting this Statement may hold a patent covering an invention the use of which may be required for compliance with the ATIS-developed American National Standard or other ATIS deliverable identified in Section C, and with respect to claim(s) of such patent(s), as may be specified more particularly in Section E, that are required for compliance with that ATIS-developed American National Standard or other ATIS deliverable (*check only one box*):
- ☐ a. An irrevocable license will be made available under reasonable terms and conditions that are demonstrably free of any unfair discrimination, without compensation, to applicants desiring to utilize the license for the purpose of implementing the American National Standard or other ATIS deliverable;
- Mark here ☐ if the Party submitting this Statement reserves the right to obtain compensation from applicants who are only willing to license, for compensation, their claim(s) of patents covering an invention, the use of which is required for compliance with the ATIS-developed American National Standard or other ATIS deliverable identified in Section C, on reasonable terms and conditions that are demonstrably free of any unfair discrimination.
- or
- ☒ b. An irrevocable license will be made available under reasonable terms and conditions that are demonstrably free of any unfair discrimination, with compensation, to applicants desiring to utilize the license for the purpose of implementing the American National Standard or other ATIS deliverable;
- Mark here ☒ if such licensing assurance is subject to applicant reciprocity.
- or
- ☐ c. Is unwilling or unable to grant licenses according to the provisions of either 2a or 2b.

3. If the Party submitting this Statement has checked box 2a or 2b, please indicate whether (*check a or b below*):

- ☐ a. The license assurance is provided for any claim(s) of any patent(s) owned or controlled by the Party submitting this Statement, and which such Party has a right to license, covering an invention the use of which is required for compliance with the American National Standard or other ATIS deliverable identified in Section C, including the claim(s) of the patent(s) identified in Section E, if any; or
- ☒ b. The license assurance is provided only for the claim(s) of the patent(s) identified in Section E covering an invention the use of which is required for compliance with the American National Standard or other ATIS deliverable identified in Section C.


E. IDENTIFICATION OF PATENTS

(Completion of the following information is optional if D3a is selected. If D3b is selected, please provide the information indicated below for each patent or application. Attach additional sheets as necessary.)

Patent No. or Application No. (if pending)	Country	Status (Granted/ Pending)	Title	Relevance*
See attached list				

* Note: A Party may, at its discretion, provide further information or explanation in respect of the invention's relevance to the American National Standard or other ATIS Deliverable identified in Section C.

F. SIGNATURE

Name of Authorized Person (type or print legibly):	Thomas R. Rouse
Signature of Authorized Person:	
Title:	VP & Legal Counsel, Standards Policy & Compliance
Date:	October 3, 2016

For more information regarding ATIS' patent policy, please see Section 10.4 of the ATIS Operating Procedures (Version 5.1), which is available online at www.atis.org/op.pdf.

Please return via mail, email (scanned with signature), or fax to:

General Counsel
 ATIS
 1200 G Street, N.W., Suite 500
 Washington, D.C. 20005 USA
 Fax: +1 (888) 874-0973
 Email: patents@atis.org

No.	ATIS Specification
1	ATIS.3GPP.23.060V8170-2014
2	ATIS.3GPP.23.107V820-2014
3	ATIS.3GPP.23.206V750-2008
4	ATIS.3GPP.24.008V8190-2014
5	ATIS.3GPP.24.206V750-2008
6	ATIS.3GPP.24.229V8270-2014
7	ATIS.3GPP.24.244V1210-2016
8	ATIS.3GPP.24.301V8100-2012
9	ATIS.3GPP.24.302V8100-2012
10	ATIS.3GPP.24.303V890-2014
11	ATIS.3GPP.24.312V930-2014
12	ATIS.3GPP.24.333V1210-2016
13	ATIS.3GPP.24.334V1211-2016
14	ATIS.3GPP.25.102V8130-2014
15	ATIS.3GPP.25.133V8200-2016
16	ATIS.3GPP.25.211V870-2012
17	ATIS.3GPP.25.212V880-2016
18	ATIS.3GPP.25.213V850-2010
19	ATIS.3GPP.25.214V8130-2014
20	ATIS.3GPP.25.221V8110-2014
21	ATIS.3GPP.25.222V890-2012
22	ATIS.3GPP.25.223V850-2012
23	ATIS.3GPP.25.224V890-2012
24	ATIS.3GPP.25.301V870-2012
25	ATIS.3GPP.25.302V870-2012
26	ATIS.3GPP.25.303V800-2008
27	ATIS.3GPP.25.304V8120-2012
28	ATIS.3GPP.25.305V810-2009
29	ATIS.3GPP.25.308V8111-2014
30	ATIS.3GPP.25.319V8120-2014
31	ATIS.3GPP.25.321V8170-2014
32	ATIS.3GPP.25.322V890-2012
33	ATIS.3GPP.25.323V850-2010
34	ATIS.3GPP.25.331V8250-2016
35	ATIS.3GPP.25.346V840-2010
36	ATIS.3GPP.25.367V830-2010
37	ATIS.3GPP.25.401V820-2009
38	ATIS.3GPP.25.413V880-2012
39	ATIS.3GPP.25.423V8140-2016
40	ATIS.3GPP.25.430V800-2009
41	ATIS.3GPP.25.433V8140-2016
42	ATIS.3GPP.25.453V830-2016
43	ATIS.3GPP.25.467V860-2012
44	ATIS.3GPP.25.469V850-2010
45	ATIS.3GPP.25.484V1020-2014
46	ATIS.3GPP.26.946V800-2010
47	ATIS.3GPP.29.061V8120-2014
48	ATIS.3GPP.31.111V8140-2014

49	ATIS.3GPP.33.102V1020-2016
50	ATIS.3GPP.33.220V890-2014
51	ATIS.3GPP.33.401V880-2012
52	ATIS.3GPP.34.108V8110-2012
53	ATIS.3GPP.34.109V820-2012
54	ATIS.3GPP.36.101V8260-2016
55	ATIS.3GPP.36.111V1200-2015
56	ATIS.3GPP.36.133V1260-2015
57	ATIS.3GPP.36.211V1240-2015
58	ATIS.3GPP.36.212V1230-2015
59	ATIS.3GPP.36.213V1240-2015
60	ATIS.3GPP.36.214V870-2010
61	ATIS.3GPP.36.300V8120-2010
62	ATIS.3GPP.36.304V8100-2012
63	ATIS.3GPP.36.306V890-2014
64	ATIS.3GPP.36.321V8120-2014
65	ATIS.3GPP.36.323V860-2010
66	ATIS.3GPP.36.331V8210-2016
67	ATIS.3GPP.36.355V10120-2015
68	ATIS.3GPP.36.413V8100-2012
69	ATIS.3GPP.36.423V890-2010
70	ATIS.3GPP.36.509V870-2012
71	ATIS.3GPP.43.055V810-2010
72	ATIS.3GPP.43.059V810-2010
73	ATIS.3GPP.43.064V830-2010
74	ATIS.3GPP.43.246V800-2010
75	ATIS.3GPP.43.318V840-2010
76	ATIS.3GPP.44.018V8170-2014
77	ATIS.3GPP.44.031V870-2014
78	ATIS.3GPP.44.035V800-2010
79	ATIS.3GPP.44.060V8170-2014
80	ATIS.3GPP.44.064V810-2014
81	ATIS.3GPP.44.318V870-2010
82	ATIS.3GPP.45.001V810-2010
83	ATIS.3GPP.45.002V810-2012
84	ATIS.3GPP.45.003V830-2010
85	ATIS.3GPP.45.004V800-2010
86	ATIS.3GPP.45.005V8170-2014
87	ATIS.3GPP.45.008V8160-2014
88	ATIS.3GPP.45.009V800-2010
89	ATIS.3GPP.45.010V850-2010
90	ATIS.3GPP.46.061V800-2010
91	ATIS.3GPP.48.008V8100-2014
92	ATIS.3GPP.48.018V8110-2014
93	ATIS.3GPP.48.071V800-2010
94	ATIS.3GPP.49.031V810-2010

Patent No. or Application No. (if pending)	Country	Status	Title	Specification
6,429,815	United States	Granted	Method and apparatus for determining search center and size in searches for GPS transmissions	ATIS.3GPP.25.331V8250-2016
6,429,815	United States	Granted	Method and apparatus for determining search center and size in searches for GPS transmissions	ATIS.3GPP.25.413V880-2012
6,429,815	United States	Granted	Method and apparatus for determining search center and size in searches for GPS transmissions	ATIS.3GPP.25.430V800-2009
6,429,815	United States	Granted	Method and apparatus for determining search center and size in searches for GPS transmissions	ATIS.3GPP.25.453V830-2016
7,289,473	United States	Granted	Pilot Reference Transmission for a Wireless Communication System	ATIS.3GPP.25.221V8110-2014
PI0015248-0	Brazil	Granted	Synchronized Pilot Reference Transmission for a Wireless Communication System	ATIS.3GPP.25.221V8110-2014
BR1220150258898	Brazil	Pending	Synchronized Pilot Reference Transmission for a Wireless Communication System	ATIS.3GPP.25.221V8110-2014
9,118,387	United States	Granted	PILOT REFERENCE TRANSMISSION FOR A WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.25.221V8110-2014
9,124,344	United States	Granted	Pilot reference transmission for a wireless communication system	ATIS.3GPP.25.221V8110-2014
ZL00818043.1	China P.R.	Granted	Synchronized Pilot Reference Transmission for a Wireless Communication System	ATIS.3GPP.25.221V8110-2014
EP1226665	Germany	Granted	Synchronized Pilot Reference Transmission for a Wireless Communication System	ATIS.3GPP.25.221V8110-2014
EP1835638	Germany	Granted	Synchronized pilot reference transmission for a wireless communication system	ATIS.3GPP.25.221V8110-2014
EP1226665	European Patent Convention	Granted	Synchronized pilot reference transmission for a wireless communication system	ATIS.3GPP.25.221V8110-2014
EP1835638	European Patent Convention	Granted	Synchronized pilot reference transmission for a wireless communication system	ATIS.3GPP.25.221V8110-2014
EP1226665	Spain	Granted	Synchronized Pilot Reference Transmission for a Wireless Communication System	ATIS.3GPP.25.221V8110-2014
EP1835638	Spain	Granted	Synchronized pilot reference transmission for a wireless communication system	ATIS.3GPP.25.221V8110-2014
EP1226665	France	Granted	Synchronized Pilot Reference Transmission for a Wireless Communication System	ATIS.3GPP.25.221V8110-2014
EP1835638	France	Granted	Synchronized pilot reference transmission for a wireless communication system	ATIS.3GPP.25.221V8110-2014
EP1226665	Great Britain	Granted	Synchronized Pilot Reference Transmission for a Wireless Communication System	ATIS.3GPP.25.221V8110-2014
EP1835638	Great Britain	Granted	Synchronized pilot reference transmission for a wireless communication system	ATIS.3GPP.25.221V8110-2014
HK1052593	Hong Kong	Granted	Method and apparatus for transmitting pilot reference from a plurality of transmission sources	ATIS.3GPP.25.221V8110-2014
HK1114473	Hong Kong	Granted	Synchronised pilot reference transmission for a wireless communication system	ATIS.3GPP.25.221V8110-2014

EP1226665	Italy	Granted	Synchronized Pilot Reference Transmission for a Wireless Communication System	ATIS.3GPP.25.221V8110-2014
EP1835638	Italy	Granted	Synchronized pilot reference transmission for a wireless communication system	ATIS.3GPP.25.221V8110-2014
4607407	Japan	Granted	Synchronized pilot reference transmission for a wireless communication system	ATIS.3GPP.25.221V8110-2014
10-0726743	Republic of Korea	Granted	Synchronized Pilot Reference Transmission for a Wireless Communication System	ATIS.3GPP.25.221V8110-2014
6,438,117	United States	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
030548	Argentina	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
PI0107464-4	Brazil	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
BR1220140269030	Brazil	Pending	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
BR1220140269056	Brazil	Pending	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
6,965,585	United States	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
2396770	Canada	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
2711787	Canada	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
2850221	Canada	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
CL43.531	Chile	Granted	Method, in a mobile wireless telecommunications system, with base stations of a first type with a first air interface and base stations of a second type with a second air interface, for making a handover, from a first base station of the first type to a second base station of the second type	ATIS.3GPP.25.331V8250-2016
ZL01806048.X	China P.R.	Granted	Method and apparatus for base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
201110046466.1	China P.R.	Pending	Method and apparatus for base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
ZL201310103235.9	China P.R.	Granted	Method and apparatus for base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
EP1254577	Germany	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
EP1729537	Germany	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
2304363	Russian Federation	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
EP1254577	European Patent Convention	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
EP1729537	European Patent Convention	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
EP1729537	Spain	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
EP1254577	France	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
EP1729537	France	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
EP1254577	Great Britain	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
EP1729537	Great Britain	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
P0400478	Hungary	Pending	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
ID0022299	Indonesia	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
212821	India	Granted	A method for handing over a mobile station, an apparatus of facilitating intersystem handover of communications and a method for searching for a candidate for handover between a CDMA base station and a TDMA base station	ATIS.3GPP.25.331V8250-2016

EP1729537	Italy	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
5677887	Japan	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
5944447	Japan	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
10-0919143	Republic of Korea	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
10-0919146	Republic of Korea	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
10-0918931	Republic of Korea	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
232606	Mexico	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
PI20070601	Malaysia	Pending	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
PI20071911	Malaysia	Pending	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
179898	Taiwan	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
2323544	Russian Federation	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
2005135629	Russian Federation	Pending	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
2006101380	Russian Federation	Pending	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
2520576	Russian Federation	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
3832	Vietnam	Granted	Base station synchronization for handover in a hybrid GSM/CDMA network	ATIS.3GPP.25.331V8250-2016
6,775,802	United States	Granted	METHOD, APPARATUS, AND SYSTEM FOR SIGNAL PREDICTION	ATIS.3GPP.25.331V8250-2016
EP1307762	Austria	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
780507	Australia	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.331V8250-2016
EP1307762	Belgium	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
PI0107073-8	Brazil	Pending	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.331V8250-2016
2385191	Canada	Granted	Method, apparatus and system for signal prediction	ATIS.3GPP.25.331V8250-2016
EP1307762	Switzerland	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
ZL01802339.8	China P.R.	Granted	Method, apparatus and system for signal prediction	ATIS.3GPP.25.331V8250-2016
EP1307762	Germany	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
EP2209017	Germany	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
EP1307762	Denmark	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
EP1307762	European Patent Convention	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
09008283.5	European Patent Convention	Pending	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.331V8250-2016
EP2209017	European Patent Convention	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
11100648.3	Hong Kong	Pending	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
12004869.9	European Patent Convention	Pending	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
12004870.7	European Patent Convention	Pending	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
EP1307762	Spain	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
EP1307762	Finland	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
EP1307762	France	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
EP1307762	Great Britain	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
EP2209017	Great Britain	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
EP1307762	Greece	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
HK1051722	Hong Kong	Granted	Method, apparatus, and system for signal prediction	ATIS.3GPP.25.331V8250-2016
ID0017765	Indonesia	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.331V8250-2016

EP1307762	Ireland	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
248455	India	Granted	A method and apparatus for predicting data	ATIS.3GPP.25.331V8250-2016
EP1307762	Italy	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
5404983	Japan	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.331V8250-2016
5749185	Japan	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.331V8250-2016
5628221	Japan	Granted	Method, apparatus and system of improving GPS signal-to-noise ratio using a bit prediction algorithm	ATIS.3GPP.25.331V8250-2016
10-0849625	Republic of Korea	Granted	Method, apparatus and system for signal prediction	ATIS.3GPP.25.331V8250-2016
235662	Mexico	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.331V8250-2016
EP1307762	Netherlands	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
EP1307762	Norway	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
EP1307762	Poland	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
EP1307762	Portugal	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
EP1307762	Sweden	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
87574	Singapore	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.331V8250-2016
5393	Vietnam	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.331V8250-2016
6,775,802	United States	Granted	METHOD, APPARATUS, AND SYSTEM FOR SIGNAL PREDICTION	ATIS.3GPP.25.413V880-2012
EP1307762	Austria	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
780507	Australia	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.413V880-2012
EP1307762	Belgium	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
PI0107073-8	Brazil	Pending	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.413V880-2012
2385191	Canada	Granted	Method, apparatus and system for signal prediction	ATIS.3GPP.25.413V880-2012
EP1307762	Switzerland	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
ZL01802339.8	China P.R.	Granted	Method, apparatus and system for signal prediction	ATIS.3GPP.25.413V880-2012
EP1307762	Germany	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
EP2209017	Germany	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
EP1307762	Denmark	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
EP1307762	European Patent Convention	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
09008283.5	European Patent Convention	Pending	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.413V880-2012
EP2209017	European Patent Convention	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
11100648.3	Hong Kong	Pending	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
12004869.9	European Patent Convention	Pending	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
12004870.7	European Patent Convention	Pending	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
EP1307762	Spain	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
EP1307762	Finland	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
EP1307762	France	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
EP1307762	Great Britain	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
EP2209017	Great Britain	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
EP1307762	Greece	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
HK1051722	Hong Kong	Granted	Method, apparatus, and system for signal prediction	ATIS.3GPP.25.413V880-2012

ID0017765	Indonesia	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.413V880-2012
EP1307762	Ireland	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
248455	India	Granted	A method and apparatus for predicting data	ATIS.3GPP.25.413V880-2012
EP1307762	Italy	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
5404983	Japan	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.413V880-2012
5749185	Japan	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.413V880-2012
5628221	Japan	Granted	Method, apparatus and system of improving GPS signal-to-noise ratio using a bit prediction algorithm	ATIS.3GPP.25.413V880-2012
10-0849625	Republic of Korea	Granted	Method, apparatus and system for signal prediction	ATIS.3GPP.25.413V880-2012
235662	Mexico	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.413V880-2012
EP1307762	Netherlands	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
EP1307762	Norway	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
EP1307762	Poland	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
EP1307762	Portugal	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
EP1307762	Sweden	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
87574	Singapore	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.413V880-2012
5393	Vietnam	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.413V880-2012
6,775,802	United States	Granted	METHOD, APPARATUS, AND SYSTEM FOR SIGNAL PREDICTION	ATIS.3GPP.25.430V800-2009
EP1307762	Austria	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009
780507	Australia	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.430V800-2009
EP1307762	Belgium	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009
PI0107073-8	Brazil	Pending	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.430V800-2009
2385191	Canada	Granted	Method, apparatus and system for signal prediction	ATIS.3GPP.25.430V800-2009
EP1307762	Switzerland	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009
ZL01802339.8	China P.R.	Granted	Method, apparatus and system for signal prediction	ATIS.3GPP.25.430V800-2009
EP1307762	Germany	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009
EP2209017	Germany	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009
EP1307762	Denmark	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009
EP1307762	European Patent Convention	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009
09008283.5	European Patent Convention	Pending	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.430V800-2009
EP2209017	European Patent Convention	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009
11100648.3	Hong Kong	Pending	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009
12004869.9	European Patent Convention	Pending	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009
12004870.7	European Patent Convention	Pending	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009
EP1307762	Spain	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009
EP1307762	Finland	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009
EP1307762	France	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009
EP1307762	Great Britain	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009
EP2209017	Great Britain	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009
EP1307762	Greece	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009

HK1051722	Hong Kong	Granted	Method, apparatus, and system for signal prediction	ATIS.3GPP.25.430V800-2009
ID0017765	Indonesia	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.430V800-2009
EP1307762	Ireland	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009
248455	India	Granted	A method and apparatus for predicting data	ATIS.3GPP.25.430V800-2009
EP1307762	Italy	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009
5404983	Japan	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.430V800-2009
5749185	Japan	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.430V800-2009
5628221	Japan	Granted	Method, apparatus and system of improving GPS signal-to-noise ratio using a bit prediction algorithm	ATIS.3GPP.25.430V800-2009
10-0849625	Republic of Korea	Granted	Method, apparatus and system for signal prediction	ATIS.3GPP.25.430V800-2009
235662	Mexico	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.430V800-2009
EP1307762	Netherlands	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009
EP1307762	Norway	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009
EP1307762	Poland	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009
EP1307762	Portugal	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009
EP1307762	Sweden	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009
87574	Singapore	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.430V800-2009
5393	Vietnam	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.430V800-2009
6,775,802	United States	Granted	METHOD, APPARATUS, AND SYSTEM FOR SIGNAL PREDICTION	ATIS.3GPP.25.453V830-2016
EP1307762	Austria	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016
780507	Australia	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.453V830-2016
EP1307762	Belgium	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016
PI0107073-8	Brazil	Pending	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.453V830-2016
2385191	Canada	Granted	Method, apparatus and system for signal prediction	ATIS.3GPP.25.453V830-2016
EP1307762	Switzerland	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016
ZL01802339.8	China P.R.	Granted	Method, apparatus and system for signal prediction	ATIS.3GPP.25.453V830-2016
EP1307762	Germany	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016
EP2209017	Germany	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016
EP1307762	Denmark	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016
EP1307762	European Patent Convention	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016
09008283.5	European Patent Convention	Pending	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.453V830-2016
EP2209017	European Patent Convention	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016
11100648.3	Hong Kong	Pending	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016
12004869.9	European Patent Convention	Pending	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016
12004870.7	European Patent Convention	Pending	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016
EP1307762	Spain	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016
EP1307762	Finland	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016
EP1307762	France	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016
EP1307762	Great Britain	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016
EP2209017	Great Britain	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016

EP1307762	Greece	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016
HK1051722	Hong Kong	Granted	Method, apparatus, and system for signal prediction	ATIS.3GPP.25.453V830-2016
ID0017765	Indonesia	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.453V830-2016
EP1307762	Ireland	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016
248455	India	Granted	A method and apparatus for predicting data	ATIS.3GPP.25.453V830-2016
EP1307762	Italy	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016
5404983	Japan	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.453V830-2016
5749185	Japan	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.453V830-2016
5628221	Japan	Granted	Method, apparatus and system of improving GPS signal-to-noise ratio using a bit prediction algorithm	ATIS.3GPP.25.453V830-2016
10-0849625	Republic of Korea	Granted	Method, apparatus and system for signal prediction	ATIS.3GPP.25.453V830-2016
235662	Mexico	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.453V830-2016
EP1307762	Netherlands	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016
EP1307762	Norway	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016
EP1307762	Poland	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016
EP1307762	Portugal	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016
EP1307762	Sweden	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016
87574	Singapore	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.25.453V830-2016
5393	Vietnam	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.25.453V830-2016
6,564,060	United States	Granted	Method and apparatus for reducing radio link supervision time in a high data rate system	ATIS.3GPP.25.224V890-2012
PI0108122-5	Brazil	Pending	Reducing radio link supervision time in a high data rate system	ATIS.3GPP.25.224V890-2012
2399729	Canada	Granted	Method and apparatus for reducing radio link supervision time in a high data rate system	ATIS.3GPP.25.224V890-2012
ZL01807763.3	China P.R.	Granted	Method and apparatus for reducing ratio link supervision time in a high data rate system	ATIS.3GPP.25.224V890-2012
EP1273185	Germany	Granted	Reducing radio link supervision time in a high data rate system	ATIS.3GPP.25.224V890-2012
EP1273185	European Patent Convention	Granted	Reducing radio link supervision time in a high data rate system Title changed in "intent to grant" document from EPO from "method and apparatus for reducing radio link supervision time in a high data rate system."	ATIS.3GPP.25.224V890-2012
EP1273185	France	Granted	Reducing radio link supervision time in a high data rate system	ATIS.3GPP.25.224V890-2012
EP1273185	Great Britain	Granted	Reducing radio link supervision time in a high data rate system	ATIS.3GPP.25.224V890-2012
HK1054833	Hong Kong	Granted	Method and Apparatus for Reducing Radio Link Supervision Time in a High Data Rate System	ATIS.3GPP.25.224V890-2012
ID0018123	Indonesia	Granted	Reducing radio link supervision time in a high data rate system	ATIS.3GPP.25.224V890-2012
221370	India	Granted	Reducing radio link supervision time in a high data rate system	ATIS.3GPP.25.224V890-2012
4689924	Japan	Granted	Reducing radio link supervision time in a high data rate system	ATIS.3GPP.25.224V890-2012
10-0717465	Republic of Korea	Granted	Method and apparatus for reducing radio link supervision time in a high data rate system	ATIS.3GPP.25.224V890-2012
226574	Mexico	Granted	Method and Apparatus for Reducing Radio Link Supervision Time in a High Data Rate System	ATIS.3GPP.25.224V890-2012

179904	Taiwan	Granted	Method and apparatus for reducing radio link supervision time in a high data rate system	ATIS.3GPP.25.224V890-2012
2262801	Russian Federation	Granted	Reducing radio link supervision time in a high data rate system	ATIS.3GPP.25.224V890-2012
6,535,739	United States	Granted	METHOD OF HANDOFF WITHIN A TELECOMMUNICATIONS SYSTEM CONTAINING DIGITAL BASE STATIONS WITH DIFFERENT SPECTRAL CAPABILITIES	ATIS.3GPP.25.331V8250-2016
2001253238	Australia	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.25.331V8250-2016
EP1273198	Belgium	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.25.331V8250-2016
PI0109873-0	Brazil	Pending	Method of Handoff Within a Telecommunications System Containing Digital Base Stations with ifferent Spectral Capabilities	ATIS.3GPP.25.331V8250-2016
BR1220140269048	Brazil	Granted	Method of Handoff Within a Telecommunications System Containing Digital Base Stations with ifferent Spectral Capabilities	ATIS.3GPP.25.331V8250-2016
6,853,843	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.25.331V8250-2016
7,151,933	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.25.331V8250-2016
7,373,149	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.25.331V8250-2016
2405494	Canada	Granted	A method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.25.331V8250-2016
ZL01810838.5	China P.R.	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.25.331V8250-2016
ZL200810086604.7	China P.R.	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.25.331V8250-2016
EP1273198	Germany	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.25.331V8250-2016
EP1273198	European Patent Convention	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.25.331V8250-2016
EP1273198	Spain	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.25.331V8250-2016
EP1273198	Finland	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.25.331V8250-2016
EP1273198	France	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.25.331V8250-2016
EP1273198	Great Britain	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.25.331V8250-2016
HK1055198	Hong Kong	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.25.331V8250-2016
ID0016047	Indonesia	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.25.331V8250-2016
EP1273198	Ireland	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.25.331V8250-2016
152118	Israel	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.25.331V8250-2016
194037	Israel	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.25.331V8250-2016
205917	India	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.25.331V8250-2016
EP1273198	Italy	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.25.331V8250-2016
4795608	Japan	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.25.331V8250-2016
10-0799080	Republic of Korea	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.25.331V8250-2016
226419	Mexico	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.25.331V8250-2016
EP1273198	Netherlands	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.25.331V8250-2016
328642	Norway	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.25.331V8250-2016
2267864	Russian Federation	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.25.331V8250-2016
EP1273198	Sweden	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.25.331V8250-2016
92347	Singapore	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.25.331V8250-2016

I224934	Taiwan	Granted	A method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.25.331V8250-2016
71670	Ukraine	Granted	Handoff Method for Wireless Telecommunications System Including Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.25.331V8250-2016
6,246,673	United States	Granted	Method and system for handoff between an asynchronous CDMA base station and a synchronous CDMA base station	ATIS.3GPP.25.331V8250-2016
HK1043012	Hong Kong	Granted	Method and System for Handoff Between an Asynchronous CDMA Base Station and a Synchronous CDMA Base Station	ATIS.3GPP.25.331V8250-2016
10-2001-7010968	Republic of Korea	Pending	Method and system for handoff between an asynchronous CDMA base station and a synchronous CDMA base station	ATIS.3GPP.25.331V8250-2016
226039	Mexico	Granted	Method and system for handoff between an asynchronous CDMA base station and a synchronous CDMA base station	ATIS.3GPP.25.331V8250-2016
6,694,469	United States	Granted	METHOD AND AN APPARATUS FOR A QUICK RETRANSMISSION OF SIGNALS IN A COMMUNICATION SYSTEM	ATIS.3GPP.25.221V8110-2014
PI0110002-5	Brazil	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
7,127,654	United States	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
7,613,978	United States	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
2406216	Canada	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
ZL01809657.3	China P.R.	Granted	An apparatus for retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
EP1273123	Germany	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
EP1273123	European Patent Convention	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
09154558.2	European Patent Convention	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
10177328.1	European Patent Convention	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
14185447.1	European Patent Convention	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
EP1273123	Spain	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
EP1273123	France	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
EP1273123	Great Britain	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
HK1055039	Hong Kong	Granted	An apparatus for retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
208621	India	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
EP1273123	Italy	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014

5583639	Japan	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
5931432	Japan	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
2013-215702	Japan	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
2014-130453	Japan	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
10-0762768	Republic of Korea	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
234667	Mexico	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
254435	Mexico	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
2295833	Russian Federation	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
2462824	Russian Federation	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
165373	Taiwan	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.221V8110-2014
UA74181	Ukraine	Granted	Apparatus for Retransmission of Signals in Communication System (Variants)	ATIS.3GPP.25.221V8110-2014
6,694,469	United States	Granted	METHOD AND AN APPARATUS FOR A QUICK RETRANMISSION OF SIGNALS IN A COMMUNICATION SYSTEM	ATIS.3GPP.25.321V8170-2014
PI0110002-5	Brazil	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
7,127,654	United States	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
7,613,978	United States	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
2406216	Canada	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
ZL01809657.3	China P.R.	Granted	An apparatus for retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
EP1273123	Germany	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
EP1273123	European Patent Convention	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
09154558.2	European Patent Convention	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
10177328.1	European Patent Convention	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
14185447.1	European Patent Convention	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
EP1273123	Spain	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014

EP1273123	France	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
EP1273123	Great Britain	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
HK1055039	Hong Kong	Granted	An apparatus for retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
208621	India	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
EP1273123	Italy	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
5583639	Japan	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
5931432	Japan	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
2013-215702	Japan	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
2014-130453	Japan	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
10-0762768	Republic of Korea	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
234667	Mexico	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
254435	Mexico	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
2295833	Russian Federation	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
2462824	Russian Federation	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
165373	Taiwan	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.321V8170-2014
UA74181	Ukraine	Granted	Apparatus for Retransmission of Signals in Communication System (Variants)	ATIS.3GPP.25.321V8170-2014
6,694,469	United States	Granted	METHOD AND AN APPARATUS FOR A QUICK RETRANSMISSION OF SIGNALS IN A COMMUNICATION SYSTEM	ATIS.3GPP.25.322V890-2012
PI0110002-5	Brazil	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012
7,127,654	United States	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012
7,613,978	United States	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012
2406216	Canada	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012
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EP1273123	Germany	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012

EP1273123	European Patent Convention	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012
09154558.2	European Patent Convention	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012
10177328.1	European Patent Convention	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012
14185447.1	European Patent Convention	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012
EP1273123	Spain	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012
EP1273123	France	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012
EP1273123	Great Britain	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012
HK1055039	Hong Kong	Granted	An apparatus for retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012
208621	India	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012
EP1273123	Italy	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012
5583639	Japan	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012
5931432	Japan	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012
2013-215702	Japan	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012
2014-130453	Japan	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012
10-0762768	Republic of Korea	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012
234667	Mexico	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012
254435	Mexico	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012
2295833	Russian Federation	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012
2462824	Russian Federation	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012
165373	Taiwan	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.25.322V890-2012
UA74181	Ukraine	Granted	Apparatus for Retransmission of Signals in Communication System (Variants)	ATIS.3GPP.25.322V890-2012
7,088,701	United States	Granted	METHOD AND APPARATUS FOR ADAPTIVE TRANSMISSION CONTROL IN A HIGH DATA RATE COMMUNICATION SYSTEM	ATIS.3GPP.25.221V8110-2014
PI0110003-3	Brazil	Pending	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.221V8110-2014

ZL01810928.4	China P.R.	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.221V8110-2014
EP1273121	Germany	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.221V8110-2014
EP1273121	European Patent Convention	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.221V8110-2014
07014756.6	European Patent Convention	Pending	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.221V8110-2014
EP1273121	Spain	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.221V8110-2014
EP1273121	Finland	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.221V8110-2014
EP1273121	France	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.221V8110-2014
EP1273121	Great Britain	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.221V8110-2014
HK1057952	Hong Kong	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.221V8110-2014
EP1273121	Italy	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.221V8110-2014
5073908	Japan	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.221V8110-2014
5607089	Japan	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.221V8110-2014
10-0825239	Republic of Korea	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.221V8110-2014
10-0866815	Republic of Korea	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.221V8110-2014
EP1273121	Netherlands	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.221V8110-2014
EP1273121	Sweden	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.221V8110-2014
168807	Taiwan	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.221V8110-2014
7,088,701	United States	Granted	METHOD AND APPARATUS FOR ADAPTIVE TRANSMISSION CONTROL IN A HIGH DATA RATE COMMUNICATION SYSTEM	ATIS.3GPP.25.321V8170-2014
PI0110003-3	Brazil	Pending	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.321V8170-2014
ZL01810928.4	China P.R.	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.321V8170-2014
EP1273121	Germany	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.321V8170-2014
EP1273121	European Patent Convention	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.321V8170-2014

07014756.6	European Patent Convention	Pending	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.321V8170-2014
EP1273121	Spain	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.321V8170-2014
EP1273121	Finland	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.321V8170-2014
EP1273121	France	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.321V8170-2014
EP1273121	Great Britain	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.321V8170-2014
HK1057952	Hong Kong	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.321V8170-2014
EP1273121	Italy	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.321V8170-2014
5073908	Japan	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.321V8170-2014
5607089	Japan	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.321V8170-2014
10-0825239	Republic of Korea	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.321V8170-2014
10-0866815	Republic of Korea	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.321V8170-2014
EP1273121	Netherlands	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.321V8170-2014
EP1273121	Sweden	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.321V8170-2014
168807	Taiwan	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.25.321V8170-2014
7,245,594	United States	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1770924	Austria	Granted	Method and apparatus for wireless communication	ATIS.3GPP.25.224V890-2012
EP2249521	Austria	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256997	Austria	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256998	Austria	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
2001263081	Australia	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1287649	Belgium	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
EP1755293	Belgium	Granted	Method and apparatus for fast closed-loop rate adaption in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1770924	Belgium	Granted	Method and apparatus for wireless communication	ATIS.3GPP.25.224V890-2012

EP2249521	Belgium	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256997	Belgium	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256998	Belgium	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
PI0110730-5	Brazil	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
PI0117252-2	Brazil	Pending	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
8,498,308	United States	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
2408619	Canada	Granted	Method and apparatus for fast closed-loop rate adaption in high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1770924	Switzerland	Granted	Method and apparatus for wireless communication	ATIS.3GPP.25.224V890-2012
EP2249521	Switzerland	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256997	Switzerland	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256998	Switzerland	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
ZL01812060.1	China P.R.	Granted	Method and Apparatus for Fast Closed-Loop Rate Adaptation in a High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
ZL200610144585.X	China P.R.	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1287649	Germany	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
EP1755293	Germany	Granted	Method and apparatus for fast closed-loop rate adaption in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1770924	Germany	Granted	Method and apparatus for wireless communication	ATIS.3GPP.25.224V890-2012
EP2249521	Germany	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256997	Germany	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256998	Germany	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1770924	Denmark	Granted	Method and apparatus for wireless communication	ATIS.3GPP.25.224V890-2012
EP2249521	Denmark	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256997	Denmark	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256998	Denmark	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1287649	European Patent Convention	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
EP1755293	European Patent Convention	Granted	Method and apparatus for fast closed-loop rate adaption in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1770924	European Patent Convention	Granted	Method and apparatus for wireless communication	ATIS.3GPP.25.224V890-2012

EP2249521	European Patent Convention	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
HK1150407	Hong Kong	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
09165436.8	European Patent Convention	Pending	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256997	European Patent Convention	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
HK1151401	Hong Kong	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
10103128.7	Hong Kong	Pending	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256998	European Patent Convention	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
HK1151647	Hong Kong	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1287649	Spain	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
EP1755293	Spain	Granted	Method and apparatus for fast closed-loop rate adaption in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1770924	Spain	Granted	Method and apparatus for wireless communication	ATIS.3GPP.25.224V890-2012
EP2249521	Spain	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256997	Spain	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256998	Spain	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1287649	Finland	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
EP1755293	Finland	Granted	Method and apparatus for fast closed-loop rate adaption in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1770924	Finland	Granted	Method and apparatus for wireless communication	ATIS.3GPP.25.224V890-2012
EP2249521	Finland	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256997	Finland	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256998	Finland	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1287649	France	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
EP1755293	France	Granted	Method and apparatus for fast closed-loop rate adaption in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1770924	France	Granted	Method and apparatus for wireless communication	ATIS.3GPP.25.224V890-2012
EP2249521	France	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256997	France	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256998	France	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012

EP1287649	Great Britain	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
EP1755293	Great Britain	Granted	Method and apparatus for fast closed-loop rate adaption in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1770924	Great Britain	Granted	Method and apparatus for wireless communication	ATIS.3GPP.25.224V890-2012
EP2249521	Great Britain	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256997	Great Britain	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256998	Great Britain	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1770924	Greece	Granted	Method and apparatus for wireless communication	ATIS.3GPP.25.224V890-2012
EP2249521	Greece	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256997	Greece	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256998	Greece	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
HK1076951	Hong Kong	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
HK1105724	Hong Kong	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
HK1104400	Hong Kong	Granted	Method and apparatus for wireless communication	ATIS.3GPP.25.224V890-2012
IDP0028103	Indonesia	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
W-00201003605	Indonesia	Pending	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
EP1287649	Ireland	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
EP1755293	Ireland	Granted	Method and apparatus for fast closed-loop rate adaption in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1770924	Ireland	Granted	Method and apparatus for wireless communication	ATIS.3GPP.25.224V890-2012
EP2249521	Ireland	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256997	Ireland	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256998	Ireland	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
152712	Israel	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
180344	Israel	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
205411	Israel	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
212226	India	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
244168	India	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1287649	Italy	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012

EP1755293	Italy	Granted	Method and apparatus for fast closed-loop rate adaption in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1770924	Italy	Granted	Method and apparatus for wireless communication	ATIS.3GPP.25.224V890-2012
EP2249521	Italy	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256997	Italy	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256998	Italy	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
4689931	Japan	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
4814053	Japan	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
4778106	Japan	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
10-0861279	Republic of Korea	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
10-0925126	Republic of Korea	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
229497	Mexico	Granted	Method and Apparatus for Fast Closed-Loop Rate Adaption in High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
EP1287649	Netherlands	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
EP1755293	Netherlands	Granted	Method and apparatus for fast closed-loop rate adaption in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1770924	Netherlands	Granted	Method and apparatus for wireless communication	ATIS.3GPP.25.224V890-2012
EP2249521	Netherlands	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256997	Netherlands	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256998	Netherlands	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
327847	Norway	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
20070269	Norway	Pending	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
EP1770924	Portugal	Granted	Method and apparatus for wireless communication	ATIS.3GPP.25.224V890-2012
EP2249521	Portugal	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256997	Portugal	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256998	Portugal	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
2275748	Russian Federation	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
EP1287649	Sweden	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
EP1755293	Sweden	Granted	Method and apparatus for fast closed-loop rate adaption in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012

EP1770924	Sweden	Granted	Method and apparatus for wireless communication	ATIS.3GPP.25.224V890-2012
EP2249521	Sweden	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256997	Sweden	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2256998	Sweden	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
92966	Singapore	Granted	Method and Apparatus for Fast Closed-Loop Rate Adaptation in a High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
I232660	Taiwan	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.25.224V890-2012
79923	Ukraine	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
91684	Ukraine	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.25.224V890-2012
7,254,402	United States	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.321V8170-2014
2002215342	Australia	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.321V8170-2014
2007202699	Australia	Pending	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.321V8170-2014
2425547	Canada	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.321V8170-2014
ZL01819146.0	China P.R.	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.321V8170-2014
EP1330662	Germany	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.321V8170-2014
EP1330662	European Patent Convention	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.321V8170-2014
EP1330662	Great Britain	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.321V8170-2014
HK1074671	Hong Kong	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.321V8170-2014
ID0021793	Indonesia	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.321V8170-2014
155206	Israel	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.321V8170-2014
224323	India	Granted	A method for a GPS receiver code-phase search range for an integrated GPS/Wireless terminal unit	ATIS.3GPP.25.321V8170-2014
4018535	Japan	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.321V8170-2014
10-0865052	Republic of Korea	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.321V8170-2014
250944	Mexico	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.321V8170-2014

RE42,543	United States	Granted	GPS SATELLITE SIGNAL ACQUISITION ASSISTANCE SYSTEM AND METHOD IN A WIRELESS COMMUNICATIONS NETWORK	ATIS.3GPP.25.321V8170-2014
96042	Singapore	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.321V8170-2014
6614	Vietnam	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.321V8170-2014
7,254,402	United States	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.331V8250-2016
2002215342	Australia	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.331V8250-2016
2007202699	Australia	Pending	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.331V8250-2016
2425547	Canada	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.331V8250-2016
ZL01819146.0	China P.R.	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.331V8250-2016
EP1330662	Germany	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.331V8250-2016
EP1330662	European Patent Convention	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.331V8250-2016
EP1330662	Great Britain	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.331V8250-2016
HK1074671	Hong Kong	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.331V8250-2016
ID0021793	Indonesia	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.331V8250-2016
155206	Israel	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.331V8250-2016
224323	India	Granted	A method for a GPS receiver code-phase search range for an integrated GPS/Wireless terminal unit	ATIS.3GPP.25.331V8250-2016
4018535	Japan	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.331V8250-2016
10-0865052	Republic of Korea	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.331V8250-2016
250944	Mexico	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.331V8250-2016
RE42,543	United States	Granted	GPS SATELLITE SIGNAL ACQUISITION ASSISTANCE SYSTEM AND METHOD IN A WIRELESS COMMUNICATIONS NETWORK	ATIS.3GPP.25.331V8250-2016
96042	Singapore	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.331V8250-2016
6614	Vietnam	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.331V8250-2016
7,254,402	United States	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.413V880-2012

2002215342	Australia	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.413V880-2012
2007202699	Australia	Pending	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.413V880-2012
2425547	Canada	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.413V880-2012
ZL01819146.0	China P.R.	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.413V880-2012
EP1330662	Germany	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.413V880-2012
EP1330662	European Patent Convention	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.413V880-2012
EP1330662	Great Britain	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.413V880-2012
HK1074671	Hong Kong	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.413V880-2012
ID0021793	Indonesia	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.413V880-2012
155206	Israel	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.413V880-2012
224323	India	Granted	A method for a GPS receiver code-phase search range for an integrated GPS/Wireless terminal unit	ATIS.3GPP.25.413V880-2012
4018535	Japan	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.413V880-2012
10-0865052	Republic of Korea	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.413V880-2012
250944	Mexico	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.413V880-2012
RE42,543	United States	Granted	GPS SATELLITE SIGNAL ACQUISTION ASSISTANCE SYSTEM AND METHOD IN A WIRELESS COMMUNICATIONS NETWORK	ATIS.3GPP.25.413V880-2012
96042	Singapore	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.413V880-2012
6614	Vietnam	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.413V880-2012
7,254,402	United States	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.430V800-2009
2002215342	Australia	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.430V800-2009
2007202699	Australia	Pending	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.430V800-2009
2425547	Canada	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.430V800-2009
ZL01819146.0	China P.R.	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.430V800-2009

EP1330662	Germany	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.430V800-2009
EP1330662	European Patent Convention	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.430V800-2009
EP1330662	Great Britain	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.430V800-2009
HK1074671	Hong Kong	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.430V800-2009
ID0021793	Indonesia	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.430V800-2009
155206	Israel	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.430V800-2009
224323	India	Granted	A method for a GPS receiver code-phase search range for an integrated GPS/Wireless terminal unit	ATIS.3GPP.25.430V800-2009
4018535	Japan	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.430V800-2009
10-0865052	Republic of Korea	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.430V800-2009
250944	Mexico	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.430V800-2009
RE42,543	United States	Granted	GPS SATELLITE SIGNAL ACQUISITION ASSISTANCE SYSTEM AND METHOD IN A WIRELESS COMMUNICATIONS NETWORK	ATIS.3GPP.25.430V800-2009
96042	Singapore	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.430V800-2009
6614	Vietnam	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.430V800-2009
7,254,402	United States	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.453V830-2016
2002215342	Australia	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.453V830-2016
2007202699	Australia	Pending	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.453V830-2016
2425547	Canada	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.453V830-2016
ZL01819146.0	China P.R.	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.453V830-2016
EP1330662	Germany	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.453V830-2016
EP1330662	European Patent Convention	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.453V830-2016
EP1330662	Great Britain	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.453V830-2016
HK1074671	Hong Kong	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.453V830-2016

ID0021793	Indonesia	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.453V830-2016
155206	Israel	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.453V830-2016
224323	India	Granted	A method for a GPS receiver code-phase search range for an integrated GPS/Wireless terminal unit	ATIS.3GPP.25.453V830-2016
4018535	Japan	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.453V830-2016
10-0865052	Republic of Korea	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.25.453V830-2016
250944	Mexico	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.453V830-2016
RE42,543	United States	Granted	GPS SATELLITE SIGNAL ACQUISITION ASSISTANCE SYSTEM AND METHOD IN A WIRELESS COMMUNICATIONS NETWORK	ATIS.3GPP.25.453V830-2016
96042	Singapore	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.453V830-2016
6614	Vietnam	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.25.453V830-2016
7,254,402	United States	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.44.031V870-2014
2002215342	Australia	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.44.031V870-2014
2007202699	Australia	Pending	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.44.031V870-2014
2425547	Canada	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.44.031V870-2014
ZL01819146.0	China P.R.	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.44.031V870-2014
EP1330662	Germany	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.44.031V870-2014
EP1330662	European Patent Convention	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.44.031V870-2014
EP1330662	Great Britain	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.44.031V870-2014
HK1074671	Hong Kong	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.44.031V870-2014
ID0021793	Indonesia	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.44.031V870-2014
155206	Israel	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.44.031V870-2014
224323	India	Granted	A method for a GPS receiver code-phase search range for an integrated GPS/Wireless terminal unit	ATIS.3GPP.44.031V870-2014
4018535	Japan	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.44.031V870-2014

10-0865052	Republic of Korea	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.44.031V870-2014
250944	Mexico	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.44.031V870-2014
RE42,543	United States	Granted	GPS SATELLITE SIGNAL ACQUISITION ASSISTANCE SYSTEM AND METHOD IN A WIRELESS COMMUNICATIONS NETWORK	ATIS.3GPP.44.031V870-2014
96042	Singapore	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.44.031V870-2014
6614	Vietnam	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.44.031V870-2014
7,042,869	United States	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.221V8110-2014
PI0113647-0	Brazil	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.221V8110-2014
2417241	Canada	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.221V8110-2014
CL43.272	Chile	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.221V8110-2014
ZL01814834.4	China P.R.	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.221V8110-2014
EP1314276	Germany	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.25.221V8110-2014
EP1314276	European Patent Convention	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.25.221V8110-2014
EP1314276	Spain	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.25.221V8110-2014
EP1314276	France	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.25.221V8110-2014
EP1314276	Great Britain	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.25.221V8110-2014
HK1061322	Hong Kong	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.221V8110-2014
ID0019345	Indonesia	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.221V8110-2014
208642	India	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.221V8110-2014
EP1314276	Italy	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.25.221V8110-2014
4933019	Japan	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.221V8110-2014
10-0812434	Republic of Korea	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.25.221V8110-2014
241291	Mexico	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.221V8110-2014
2282942	Russian Federation	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.221V8110-2014
189137	Taiwan	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.221V8110-2014
75602	Ukraine	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.221V8110-2014

7,042,869	United States	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.222V890-2012
PI0113647-0	Brazil	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.222V890-2012
2417241	Canada	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.222V890-2012
CL43.272	Chile	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.222V890-2012
ZL01814834.4	China P.R.	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.222V890-2012
EP1314276	Germany	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.25.222V890-2012
EP1314276	European Patent Convention	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.25.222V890-2012
EP1314276	Spain	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.25.222V890-2012
EP1314276	France	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.25.222V890-2012
EP1314276	Great Britain	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.25.222V890-2012
HK1061322	Hong Kong	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.222V890-2012
ID0019345	Indonesia	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.222V890-2012
208642	India	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.222V890-2012
EP1314276	Italy	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.25.222V890-2012
4933019	Japan	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.222V890-2012
10-0812434	Republic of Korea	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.25.222V890-2012
241291	Mexico	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.222V890-2012
2282942	Russian Federation	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.222V890-2012
189137	Taiwan	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.222V890-2012
75602	Ukraine	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.222V890-2012
7,042,869	United States	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.321V8170-2014
PI0113647-0	Brazil	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.321V8170-2014
2417241	Canada	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.321V8170-2014
CL43.272	Chile	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.321V8170-2014
ZL01814834.4	China P.R.	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.321V8170-2014
EP1314276	Germany	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.25.321V8170-2014

EP1314276	European Patent Convention	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.25.321V8170-2014
EP1314276	Spain	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.25.321V8170-2014
EP1314276	France	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.25.321V8170-2014
EP1314276	Great Britain	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.25.321V8170-2014
HK1061322	Hong Kong	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.321V8170-2014
ID0019345	Indonesia	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.321V8170-2014
208642	India	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.321V8170-2014
EP1314276	Italy	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.25.321V8170-2014
4933019	Japan	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.321V8170-2014
10-0812434	Republic of Korea	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.25.321V8170-2014
241291	Mexico	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.321V8170-2014
2282942	Russian Federation	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.321V8170-2014
189137	Taiwan	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.321V8170-2014
75602	Ukraine	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.25.321V8170-2014
6,895,249	United States	Granted	Method and Apparatus for Broadcasting Position Location Data in a Wireless Communication System	ATIS.3GPP.25.331V8250-2016
777646	Australia	Granted	Method and Apparatus for Broadcasting Position Location Data in a Wireless Communication System	ATIS.3GPP.25.331V8250-2016
PI0106971-3	Brazil	Pending	Method and Apparatus for Broadcasting Position Location Data in a Wireless Communication System	ATIS.3GPP.25.331V8250-2016
2383685	Canada	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.25.331V8250-2016
ZL01802756.3	China P.R.	Granted	Method and Apparatus for Broadcasting Position Location Data in a Wireless Communication System	ATIS.3GPP.25.331V8250-2016
EP1302081	Germany	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP1302081	European Patent Convention	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP1302081	Spain	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP1302081	Finland	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP1302081	France	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP1302081	Great Britain	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.25.331V8250-2016

HK1050606	Hong Kong	Granted	Method and Apparatus for Broadcasting Position Location Data in a Wireless Communication System	ATIS.3GPP.25.331V8250-2016
ID0019106	Indonesia	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.25.331V8250-2016
212881	India	Granted	Method and Apparatus for Broadcasting Position Location Data in a Wireless Communication System	ATIS.3GPP.25.331V8250-2016
EP1302081	Italy	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.25.331V8250-2016
5393937	Japan	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.25.331V8250-2016
5628262	Japan	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.25.331V8250-2016
10-0877251	Republic of Korea	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.25.331V8250-2016
236122	Mexico	Granted	Method and Apparatus for Broadcasting Position Location Data in a Wireless Communication System	ATIS.3GPP.25.331V8250-2016
EP1302081	Netherlands	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP1302081	Sweden	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.25.331V8250-2016
6,895,249	United States	Granted	Method and Apparatus for Broadcasting Position Location Data in a Wireless Communication System	ATIS.3GPP.44.035V800-2010
777646	Australia	Granted	Method and Apparatus for Broadcasting Position Location Data in a Wireless Communication System	ATIS.3GPP.44.035V800-2010
PI0106971-3	Brazil	Pending	Method and Apparatus for Broadcasting Position Location Data in a Wireless Communication System	ATIS.3GPP.44.035V800-2010
2383685	Canada	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.44.035V800-2010
ZL01802756.3	China P.R.	Granted	Method and Apparatus for Broadcasting Position Location Data in a Wireless Communication System	ATIS.3GPP.44.035V800-2010
EP1302081	Germany	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.44.035V800-2010
EP1302081	European Patent Convention	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.44.035V800-2010
EP1302081	Spain	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.44.035V800-2010
EP1302081	Finland	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.44.035V800-2010
EP1302081	France	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.44.035V800-2010
EP1302081	Great Britain	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.44.035V800-2010
HK1050606	Hong Kong	Granted	Method and Apparatus for Broadcasting Position Location Data in a Wireless Communication System	ATIS.3GPP.44.035V800-2010

ID0019106	Indonesia	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.44.035V800-2010
212881	India	Granted	Method and Apparatus for Broadcasting Position Location Data in a Wireless Communication System	ATIS.3GPP.44.035V800-2010
EP1302081	Italy	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.44.035V800-2010
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236122	Mexico	Granted	Method and Apparatus for Broadcasting Position Location Data in a Wireless Communication System	ATIS.3GPP.44.035V800-2010
EP1302081	Netherlands	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.44.035V800-2010
EP1302081	Sweden	Granted	Method and apparatus for broadcasting position location data in a wireless communication system	ATIS.3GPP.44.035V800-2010
EP0885492	Switzerland	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
EP2169848	Germany	Granted	Device and method to determine approximate doppler to assist a mobile system	ATIS.3GPP.25.331V8250-2016
10184383.7	European Patent Convention	Pending	Device and method for determining position information of a SPS receiver having a cell based communication receiver	ATIS.3GPP.25.331V8250-2016
HK1142456	Hong Kong	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.331V8250-2016
EP0950194	European Patent Convention	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
EP2169848	European Patent Convention	Granted	Device and method to determine approximate doppler to assist a mobile system	ATIS.3GPP.25.331V8250-2016
EP2169848	Great Britain	Granted	Device and method to determine approximate doppler to assist a mobile system	ATIS.3GPP.25.331V8250-2016
HK1024530	Hong Kong	Granted	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.25.331V8250-2016
EP0885492	Germany	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
EP1798564	Germany	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.331V8250-2016
EP0950194	Germany	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
1998-525618	Japan	Pending	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.25.331V8250-2016
EP0885492	Denmark	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
EP1798564	European Patent Convention	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.331V8250-2016
10183754.0	European Patent Convention	Pending	An improved mobile GPS receiver	ATIS.3GPP.25.331V8250-2016
11106664.9	Hong Kong	Pending	An improved mobile GPS receiver	ATIS.3GPP.25.331V8250-2016

10183782.1	European Patent Convention	Pending	An improved GPS receiver utilizing satellite position information for compensating Doppler	ATIS.3GPP.25.331V8250-2016
11108387.1	Hong Kong	Pending	An improved GPS receiver utilizing satellite position information for compensating Doppler	ATIS.3GPP.25.331V8250-2016
EP0885492	European Patent Convention	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
EP0885492	Spain	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
EP1798564	Spain	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.331V8250-2016
EP0950194	Spain	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
EP0885492	Finland	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
EP0950194	Finland	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
EP0885492	France	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
EP1798564	France	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.331V8250-2016
EP0950194	France	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
EP0885492	Great Britain	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
EP1798564	Great Britain	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.331V8250-2016
EP0950194	Great Britain	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
EP0885492	Greece	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
HK1017182	Hong Kong	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
HK1105459	Hong Kong	Granted	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.25.331V8250-2016
EP0885492	Ireland	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
EP0950194	Ireland	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
EP0885492	Italy	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
EP1798564	Italy	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.331V8250-2016
EP0950194	Italy	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
1997-531936	Japan	Pending	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.25.331V8250-2016
2007-228963	Japan	Pending	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
5688115	Japan	Granted	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.25.331V8250-2016
10-0663899	Republic of Korea	Granted	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.25.331V8250-2016
EP0885492	Netherlands	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
EP0950194	Netherlands	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
EP0885492	Portugal	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
EP0885492	Sweden	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
EP0950194	Sweden	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.331V8250-2016
EP0885492	Switzerland	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
EP2169848	Germany	Granted	Device and method to determine approximate doppler to assist a mobile system	ATIS.3GPP.25.413V880-2012

10184383.7	European Patent Convention	Pending	Device and method for determining position information of a SPS receiver having a cell based communication receiver	ATIS.3GPP.25.413V880-2012
HK1142456	Hong Kong	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.413V880-2012
EP0950194	European Patent Convention	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
EP2169848	European Patent Convention	Granted	Device and method to determine approximate doppler to assist a mobile system	ATIS.3GPP.25.413V880-2012
EP2169848	Great Britain	Granted	Device and method to determine approximate doppler to assist a mobile system	ATIS.3GPP.25.413V880-2012
HK1024530	Hong Kong	Granted	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.25.413V880-2012
EP0885492	Germany	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
EP1798564	Germany	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.413V880-2012
EP0950194	Germany	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
1998-525618	Japan	Pending	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.25.413V880-2012
EP0885492	Denmark	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
EP1798564	European Patent Convention	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.413V880-2012
10183754.0	European Patent Convention	Pending	An improved mobile GPS receiver	ATIS.3GPP.25.413V880-2012
11106664.9	Hong Kong	Pending	An improved mobile GPS receiver	ATIS.3GPP.25.413V880-2012
10183782.1	European Patent Convention	Pending	An improved GPS receiver utilizing satellite position information for compensating Doppler	ATIS.3GPP.25.413V880-2012
11108387.1	Hong Kong	Pending	An improved GPS receiver utilizing satellite position information for compensating Doppler	ATIS.3GPP.25.413V880-2012
EP0885492	European Patent Convention	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
EP0885492	Spain	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
EP1798564	Spain	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.413V880-2012
EP0950194	Spain	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
EP0885492	Finland	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
EP0950194	Finland	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
EP0885492	France	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
EP1798564	France	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.413V880-2012
EP0950194	France	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
EP0885492	Great Britain	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
EP1798564	Great Britain	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.413V880-2012
EP0950194	Great Britain	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
EP0885492	Greece	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012

HK1017182	Hong Kong	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
HK1105459	Hong Kong	Granted	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.25.413V880-2012
EP0885492	Ireland	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
EP0950194	Ireland	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
EP0885492	Italy	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
EP1798564	Italy	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.413V880-2012
EP0950194	Italy	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
1997-531936	Japan	Pending	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.25.413V880-2012
2007-228963	Japan	Pending	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
5688115	Japan	Granted	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.25.413V880-2012
10-0663899	Republic of Korea	Granted	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.25.413V880-2012
EP0885492	Netherlands	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
EP0950194	Netherlands	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
EP0885492	Portugal	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
EP0885492	Sweden	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
EP0950194	Sweden	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.413V880-2012
EP0885492	Switzerland	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.430V800-2009
EP2169848	Germany	Granted	Device and method to determine approximate doppler to assist a mobile system	ATIS.3GPP.25.430V800-2009
10184383.7	European Patent Convention	Pending	Device and method for determining position information of a SPS receiver having a cell based communication receiver	ATIS.3GPP.25.430V800-2009
HK1142456	Hong Kong	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.430V800-2009
EP0950194	European Patent Convention	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.430V800-2009
EP2169848	European Patent Convention	Granted	Device and method to determine approximate doppler to assist a mobile system	ATIS.3GPP.25.430V800-2009
EP2169848	Great Britain	Granted	Device and method to determine approximate doppler to assist a mobile system	ATIS.3GPP.25.430V800-2009
HK1024530	Hong Kong	Granted	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.25.430V800-2009
EP0885492	Germany	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.430V800-2009
EP1798564	Germany	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.430V800-2009
EP0950194	Germany	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.430V800-2009
1998-525618	Japan	Pending	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.25.430V800-2009
EP0885492	Denmark	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.430V800-2009
EP1798564	European Patent Convention	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.430V800-2009
10183754.0	European Patent Convention	Pending	An improved mobile GPS receiver	ATIS.3GPP.25.430V800-2009
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10183782.1	European Patent Convention	Pending	An improved GPS receiver utilizing satellite position information for compensating Doppler	ATIS.3GPP.25.430V800-2009
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EP0885492	Spain	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.430V800-2009
EP1798564	Spain	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.430V800-2009
EP0950194	Spain	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.430V800-2009
EP0885492	Finland	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.430V800-2009
EP0950194	Finland	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.430V800-2009
EP0885492	France	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.430V800-2009
EP1798564	France	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.430V800-2009
EP0950194	France	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.430V800-2009
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EP0885492	Greece	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.430V800-2009
HK1017182	Hong Kong	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.430V800-2009
HK1105459	Hong Kong	Granted	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.25.430V800-2009
EP0885492	Ireland	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.430V800-2009
EP0950194	Ireland	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.430V800-2009
EP0885492	Italy	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.430V800-2009
EP1798564	Italy	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.430V800-2009
EP0950194	Italy	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.430V800-2009
1997-531936	Japan	Pending	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.25.430V800-2009
2007-228963	Japan	Pending	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.430V800-2009
5688115	Japan	Granted	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.25.430V800-2009
10-0663899	Republic of Korea	Granted	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.25.430V800-2009
EP0885492	Netherlands	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.430V800-2009
EP0950194	Netherlands	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.430V800-2009
EP0885492	Portugal	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.430V800-2009
EP0885492	Sweden	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.430V800-2009
EP0950194	Sweden	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.430V800-2009
EP0885492	Switzerland	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.453V830-2016
EP2169848	Germany	Granted	Device and method to determine approximate doppler to assist a mobile system	ATIS.3GPP.25.453V830-2016

10184383.7	European Patent Convention	Pending	Device and method for determining position information of a SPS receiver having a cell based communication receiver	ATIS.3GPP.25.453V830-2016
HK1142456	Hong Kong	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.453V830-2016
EP0950194	European Patent Convention	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.453V830-2016
EP2169848	European Patent Convention	Granted	Device and method to determine approximate doppler to assist a mobile system	ATIS.3GPP.25.453V830-2016
EP2169848	Great Britain	Granted	Device and method to determine approximate doppler to assist a mobile system	ATIS.3GPP.25.453V830-2016
HK1024530	Hong Kong	Granted	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.25.453V830-2016
EP0885492	Germany	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.453V830-2016
EP1798564	Germany	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.453V830-2016
EP0950194	Germany	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.453V830-2016
1998-525618	Japan	Pending	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.25.453V830-2016
EP0885492	Denmark	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.453V830-2016
EP1798564	European Patent Convention	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.453V830-2016
10183754.0	European Patent Convention	Pending	An improved mobile GPS receiver	ATIS.3GPP.25.453V830-2016
11106664.9	Hong Kong	Pending	An improved mobile GPS receiver	ATIS.3GPP.25.453V830-2016
10183782.1	European Patent Convention	Pending	An improved GPS receiver utilizing satellite position information for compensating Doppler	ATIS.3GPP.25.453V830-2016
11108387.1	Hong Kong	Pending	An improved GPS receiver utilizing satellite position information for compensating Doppler	ATIS.3GPP.25.453V830-2016
EP0885492	European Patent Convention	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.453V830-2016
EP0885492	Spain	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.453V830-2016
EP1798564	Spain	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.453V830-2016
EP0950194	Spain	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.453V830-2016
EP0885492	Finland	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.453V830-2016
EP0950194	Finland	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.453V830-2016
EP0885492	France	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.453V830-2016
EP1798564	France	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.453V830-2016
EP0950194	France	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.453V830-2016
EP0885492	Great Britain	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.453V830-2016
EP1798564	Great Britain	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.453V830-2016
EP0950194	Great Britain	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.453V830-2016
EP0885492	Greece	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.453V830-2016

HK1017182	Hong Kong	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.453V830-2016
HK1105459	Hong Kong	Granted	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.25.453V830-2016
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EP0950194	Ireland	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.453V830-2016
EP0885492	Italy	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.453V830-2016
EP1798564	Italy	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.25.453V830-2016
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1997-531936	Japan	Pending	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.25.453V830-2016
2007-228963	Japan	Pending	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.453V830-2016
5688115	Japan	Granted	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.25.453V830-2016
10-0663899	Republic of Korea	Granted	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.25.453V830-2016
EP0885492	Netherlands	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.453V830-2016
EP0950194	Netherlands	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.453V830-2016
EP0885492	Portugal	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.453V830-2016
EP0885492	Sweden	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.453V830-2016
EP0950194	Sweden	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.25.453V830-2016
723615	Australia	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.331V8250-2016
PI9611701-0	Brazil	Pending	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.331V8250-2016
PI9613027-0	Brazil	Pending	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
PI9613029-6	Brazil	Pending	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
PI9613028-8	Brazil	Pending	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.331V8250-2016
PI9613030-0	Brazil	Pending	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
2667772	Canada	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
2667764	Canada	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
2667775	Canada	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
2667786	Canada	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
2230841	Canada	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
ZL200710085825.8	China P.R.	Granted	GPS receiver and method for processing GPS signal	ATIS.3GPP.25.331V8250-2016
ZL03130989.5	China P.R.	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.331V8250-2016
ZL200610100300.2	China P.R.	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
EP0855039	Germany	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.331V8250-2016
EP1418440	Germany	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
EP1586916	Germany	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
EP1752782	Germany	Granted	LO correction in GPS receiver	ATIS.3GPP.25.331V8250-2016
EP2113782	Germany	Granted	GPS mobile unit having a reduced power state	ATIS.3GPP.25.331V8250-2016
EP1418440	European Patent Convention	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
EP1586916	European Patent Convention	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
EP1752782	European Patent Convention	Granted	LO correction in GPS receiver	ATIS.3GPP.25.331V8250-2016
EP2113782	European Patent Convention	Granted	GPS mobile unit having a reduced power state	ATIS.3GPP.25.331V8250-2016

EP0855039	European Patent Convention	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
EP0855039	Spain	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.331V8250-2016
EP1418440	Spain	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
EP1586916	Spain	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
EP1752782	Spain	Granted	LO correction in GPS receiver	ATIS.3GPP.25.331V8250-2016
EP2113782	Spain	Granted	GPS mobile unit having a reduced power state	ATIS.3GPP.25.331V8250-2016
EP1418440	Finland	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
EP1586916	Finland	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
EP0855039	France	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.331V8250-2016
EP1418440	France	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
EP1586916	France	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
EP1752782	France	Granted	LO correction in GPS receiver	ATIS.3GPP.25.331V8250-2016
EP2113782	France	Granted	GPS mobile unit having a reduced power state	ATIS.3GPP.25.331V8250-2016
EP0855039	Great Britain	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.331V8250-2016
EP1418440	Great Britain	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
EP1586916	Great Britain	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
EP1752782	Great Britain	Granted	LO correction in GPS receiver	ATIS.3GPP.25.331V8250-2016
EP2113782	Great Britain	Granted	GPS mobile unit having a reduced power state	ATIS.3GPP.25.331V8250-2016
HK1022524	Hong Kong	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.331V8250-2016
HK1100972	Hong Kong	Granted	LO correction in GPS receiver	ATIS.3GPP.25.331V8250-2016
EP0855039	Italy	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.331V8250-2016
EP1418440	Italy	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
EP1586916	Italy	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
EP1752782	Italy	Granted	LO correction in GPS receiver	ATIS.3GPP.25.331V8250-2016
EP2113782	Italy	Granted	GPS mobile unit having a reduced power state	ATIS.3GPP.25.331V8250-2016
3738271	Japan	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.331V8250-2016
4435720	Japan	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
5641279	Japan	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
5455542	Japan	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
10-0457329	Republic of Korea	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.331V8250-2016
EP1418440	Netherlands	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
EP1586916	Netherlands	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
ZL96197519.9	China P.R.	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.331V8250-2016
2357267	Russian Federation	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
2236692	Russian Federation	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.331V8250-2016
EP1418440	Sweden	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
EP1586916	Sweden	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.331V8250-2016
723615	Australia	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.413V880-2012
PI9611701-0	Brazil	Pending	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.413V880-2012
PI9613027-0	Brazil	Pending	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012

PI9613029-6	Brazil	Pending	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
PI9613028-8	Brazil	Pending	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.413V880-2012
PI9613030-0	Brazil	Pending	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
2667772	Canada	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
2667764	Canada	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
2667775	Canada	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
2667786	Canada	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
2230841	Canada	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
ZL200710085825.8	China P.R.	Granted	GPS receiver and method for processing GPS signal	ATIS.3GPP.25.413V880-2012
ZL03130989.5	China P.R.	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.413V880-2012
ZL200610100300.2	China P.R.	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
EP0855039	Germany	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.413V880-2012
EP1418440	Germany	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
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EP1752782	Germany	Granted	LO correction in GPS receiver	ATIS.3GPP.25.413V880-2012
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EP1418440	European Patent Convention	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
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EP2113782	European Patent Convention	Granted	GPS mobile unit having a reduced power state	ATIS.3GPP.25.413V880-2012
EP0855039	European Patent Convention	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
EP0855039	Spain	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.413V880-2012
EP1418440	Spain	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
EP1586916	Spain	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
EP1752782	Spain	Granted	LO correction in GPS receiver	ATIS.3GPP.25.413V880-2012
EP2113782	Spain	Granted	GPS mobile unit having a reduced power state	ATIS.3GPP.25.413V880-2012
EP1418440	Finland	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
EP1586916	Finland	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
EP0855039	France	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.413V880-2012
EP1418440	France	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
EP1586916	France	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
EP1752782	France	Granted	LO correction in GPS receiver	ATIS.3GPP.25.413V880-2012
EP2113782	France	Granted	GPS mobile unit having a reduced power state	ATIS.3GPP.25.413V880-2012
EP0855039	Great Britain	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.413V880-2012
EP1418440	Great Britain	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
EP1586916	Great Britain	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
EP1752782	Great Britain	Granted	LO correction in GPS receiver	ATIS.3GPP.25.413V880-2012
EP2113782	Great Britain	Granted	GPS mobile unit having a reduced power state	ATIS.3GPP.25.413V880-2012
HK1022524	Hong Kong	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.413V880-2012
HK1100972	Hong Kong	Granted	LO correction in GPS receiver	ATIS.3GPP.25.413V880-2012

EP0855039	Italy	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.413V880-2012
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3738271	Japan	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.413V880-2012
4435720	Japan	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
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5455542	Japan	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
10-0457329	Republic of Korea	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.413V880-2012
EP1418440	Netherlands	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
EP1586916	Netherlands	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
ZL96197519.9	China P.R.	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.413V880-2012
2357267	Russian Federation	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
2236692	Russian Federation	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.413V880-2012
EP1418440	Sweden	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
EP1586916	Sweden	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
723615	Australia	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.430V800-2009
PI9611701-0	Brazil	Pending	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.430V800-2009
PI9613027-0	Brazil	Pending	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.430V800-2009
PI9613029-6	Brazil	Pending	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.430V800-2009
PI9613028-8	Brazil	Pending	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.430V800-2009
PI9613030-0	Brazil	Pending	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.430V800-2009
2667772	Canada	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.430V800-2009
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2230841	Canada	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.430V800-2009
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ZL03130989.5	China P.R.	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.430V800-2009
ZL200610100300.2	China P.R.	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.430V800-2009
EP0855039	Germany	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.430V800-2009
EP1418440	Germany	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.430V800-2009
EP1586916	Germany	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.430V800-2009
EP1752782	Germany	Granted	LO correction in GPS receiver	ATIS.3GPP.25.430V800-2009
EP2113782	Germany	Granted	GPS mobile unit having a reduced power state	ATIS.3GPP.25.430V800-2009
EP1418440	European Patent Convention	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.430V800-2009
EP1586916	European Patent Convention	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.430V800-2009
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EP0855039	European Patent Convention	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.430V800-2009
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EP2113782	Spain	Granted	GPS mobile unit having a reduced power state	ATIS.3GPP.25.430V800-2009
EP1418440	Finland	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.430V800-2009
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EP0855039	France	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.430V800-2009
EP1418440	France	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.430V800-2009
EP1586916	France	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.430V800-2009
EP1752782	France	Granted	LO correction in GPS receiver	ATIS.3GPP.25.430V800-2009
EP2113782	France	Granted	GPS mobile unit having a reduced power state	ATIS.3GPP.25.430V800-2009
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EP1586916	Great Britain	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.430V800-2009
EP1752782	Great Britain	Granted	LO correction in GPS receiver	ATIS.3GPP.25.430V800-2009
EP2113782	Great Britain	Granted	GPS mobile unit having a reduced power state	ATIS.3GPP.25.430V800-2009
HK1022524	Hong Kong	Granted	GPS Receiver and Method for Processing GPS Signals	ATIS.3GPP.25.430V800-2009
HK1100972	Hong Kong	Granted	LO correction in GPS receiver	ATIS.3GPP.25.430V800-2009
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EP2113782	Italy	Granted	GPS mobile unit having a reduced power state	ATIS.3GPP.25.430V800-2009
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4435720	Japan	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.430V800-2009
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5455542	Japan	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.430V800-2009
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PI9613027-0	Brazil	Pending	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.453V830-2016

PI9613029-6	Brazil	Pending	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.453V830-2016
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PI9613030-0	Brazil	Pending	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.453V830-2016
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2667775	Canada	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.453V830-2016
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HK1100972	Hong Kong	Granted	LO correction in GPS receiver	ATIS.3GPP.25.453V830-2016

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EP1260830	Germany	Granted	GPS receiver and method for processing GPS signals	ATIS.3GPP.25.413V880-2012
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6,661,372	United States	Granted	Client-Server Based Remote Locator Device	ATIS.3GPP.25.331V8250-2016
6,661,372	United States	Granted	Client-Server Based Remote Locator Device	ATIS.3GPP.25.413V880-2012
6,661,372	United States	Granted	Client-Server Based Remote Locator Device	ATIS.3GPP.25.423V8140-2016
6,661,372	United States	Granted	Client-Server Based Remote Locator Device	ATIS.3GPP.25.430V800-2009
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6,661,372	United States	Granted	Client-Server Based Remote Locator Device	ATIS.3GPP.25.453V830-2016
6,661,372	United States	Granted	Client-Server Based Remote Locator Device	ATIS.3GPP.44.018V8170-2014
6,661,372	United States	Granted	Client-Server Based Remote Locator Device	ATIS.3GPP.44.031V870-2014
6,661,372	United States	Granted	Client-Server Based Remote Locator Device	ATIS.3GPP.48.071V800-2010
6,661,372	United States	Granted	Client-Server Based Remote Locator Device	ATIS.3GPP.49.031V810-2010
5,812,087	United States	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.25.331V8250-2016
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4757291	Japan	Granted	Method and apparatus for satellite positioning system based time measurement	ATIS.3GPP.25.430V800-2009
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EP0958530	Portugal	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.25.430V800-2009
EP0958530	Sweden	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.25.430V800-2009
5,812,087	United States	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.25.453V830-2016
EP0958530	Belgium	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.25.453V830-2016

PI9807295-1	Brazil	Granted	Method and apparatus for satellite positioning system based time measurement	ATIS.3GPP.25.453V830-2016
PI9816304-3	Brazil	Granted	Method and apparatus for satellite positioning system based time measurement	ATIS.3GPP.25.453V830-2016
6,052,081	United States	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.25.453V830-2016
6,239,742	United States	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.25.453V830-2016
EP0958530	Switzerland	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.25.453V830-2016
EP0958530	Germany	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.25.453V830-2016
EP0958530	Denmark	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.25.453V830-2016
EP0958530	European Patent Convention	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.25.453V830-2016
EP0958530	Spain	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.25.453V830-2016
EP0958530	Finland	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.25.453V830-2016
EP0958530	France	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.25.453V830-2016
EP0958530	Great Britain	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.25.453V830-2016
EP0958530	Greece	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.25.453V830-2016
HK1025156	Hong Kong	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.25.453V830-2016
EP0958530	Ireland	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.25.453V830-2016
EP0958530	Italy	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.25.453V830-2016
4316676	Japan	Granted	Method and apparatus for satellite positioning system based time measurement	ATIS.3GPP.25.453V830-2016
4757291	Japan	Granted	Method and apparatus for satellite positioning system based time measurement	ATIS.3GPP.25.453V830-2016
ZL98802276.1	China P.R.	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.25.453V830-2016
EP0958530	Portugal	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.25.453V830-2016
EP0958530	Sweden	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.25.453V830-2016
5,812,087	United States	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.44.031V870-2014

EP0958530	Belgium	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.44.031V870-2014
PI9807295-1	Brazil	Granted	Method and apparatus for satellite positioning system based time measurement	ATIS.3GPP.44.031V870-2014
PI9816304-3	Brazil	Granted	Method and apparatus for satellite positioning system based time measurement	ATIS.3GPP.44.031V870-2014
6,052,081	United States	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.44.031V870-2014
6,239,742	United States	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.44.031V870-2014
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EP0958530	Germany	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.44.031V870-2014
EP0958530	Denmark	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.44.031V870-2014
EP0958530	European Patent Convention	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.44.031V870-2014
EP0958530	Spain	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.44.031V870-2014
EP0958530	Finland	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.44.031V870-2014
EP0958530	France	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.44.031V870-2014
EP0958530	Great Britain	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.44.031V870-2014
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4757291	Japan	Granted	Method and apparatus for satellite positioning system based time measurement	ATIS.3GPP.44.031V870-2014
ZL98802276.1	China P.R.	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.44.031V870-2014
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EP0941487	Belgium	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.331V8250-2016
EP0941487	Switzerland	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.331V8250-2016
EP1262790	Belgium	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.25.331V8250-2016
EP1262790	Switzerland	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.25.331V8250-2016
EP1262790	Germany	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.25.331V8250-2016
EP1262790	European Patent Convention	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.25.331V8250-2016
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EP1262790	Ireland	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.25.331V8250-2016
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EP1262790	Liechtenstein	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.25.331V8250-2016
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EP1262790	Sweden	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.25.331V8250-2016
EP2020608	Germany	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.25.331V8250-2016
EP2020608	European Patent Convention	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.25.331V8250-2016
09104857.5	Hong Kong	Pending	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.331V8250-2016
EP2020608	France	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.25.331V8250-2016
EP2020608	Great Britain	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.25.331V8250-2016
EP0941487	Germany	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.331V8250-2016
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EP0941487	European Patent Convention	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.331V8250-2016
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EP0941487	Finland	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.331V8250-2016
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EP0941487	Great Britain	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.331V8250-2016
EP0941487	Greece	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.331V8250-2016
HK1024060	Hong Kong	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.331V8250-2016
EP0941487	Ireland	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.331V8250-2016
EP0941487	Italy	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.331V8250-2016
1998-525640	Japan	Pending	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.25.331V8250-2016
5015615	Japan	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.25.331V8250-2016
10-0573397	Republic of Korea	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.331V8250-2016
EP0941487	Liechtenstein	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.331V8250-2016
EP0941487	Netherlands	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.331V8250-2016
EP0941487	Portugal	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.331V8250-2016
EP0941487	Sweden	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.331V8250-2016
EP0941487	Belgium	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.413V880-2012
EP0941487	Switzerland	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.413V880-2012

EP1262790	Belgium	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.25.413V880-2012
EP1262790	Switzerland	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.25.413V880-2012
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EP1262790	Sweden	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.25.413V880-2012
EP2020608	Germany	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.25.413V880-2012
EP2020608	European Patent Convention	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.25.413V880-2012
09104857.5	Hong Kong	Pending	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.413V880-2012
EP2020608	France	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.25.413V880-2012
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EP0941487	France	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.413V880-2012
EP0941487	Great Britain	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.413V880-2012
EP0941487	Greece	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.413V880-2012
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EP0941487	Ireland	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.413V880-2012
EP0941487	Italy	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.413V880-2012
1998-525640	Japan	Pending	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.25.413V880-2012
5015615	Japan	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.25.413V880-2012
10-0573397	Republic of Korea	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.413V880-2012
EP0941487	Liechtenstein	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.413V880-2012
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EP0941487	Belgium	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.430V800-2009
EP0941487	Switzerland	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.430V800-2009
EP1262790	Belgium	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.25.430V800-2009
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EP1262790	Germany	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.25.430V800-2009
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EP0941487	Greece	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.430V800-2009
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EP0941487	Italy	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.430V800-2009
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EP0941487	Liechtenstein	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.430V800-2009
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EP0941487	Portugal	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.430V800-2009
EP0941487	Sweden	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.430V800-2009
EP0941487	Belgium	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.453V830-2016
EP0941487	Switzerland	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.453V830-2016
EP1262790	Belgium	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.25.453V830-2016
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EP0941487	Sweden	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.25.453V830-2016
EP0941487	Belgium	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.031V870-2014
EP0941487	Switzerland	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.031V870-2014
EP1262790	Belgium	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.031V870-2014
EP1262790	Switzerland	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.031V870-2014
EP1262790	Germany	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.031V870-2014
EP1262790	European Patent Convention	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.031V870-2014
EP1262790	Spain	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.031V870-2014
EP1262790	Finland	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.031V870-2014

EP1262790	France	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.031V870-2014
EP1262790	Great Britain	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.031V870-2014
EP1262790	Ireland	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.031V870-2014
EP1262790	Italy	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.031V870-2014
EP1262790	Liechtenstein	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.031V870-2014
EP1262790	Netherlands	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.031V870-2014
EP1262790	Sweden	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.031V870-2014
EP2020608	Germany	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.031V870-2014
EP2020608	European Patent Convention	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.031V870-2014
09104857.5	Hong Kong	Pending	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.031V870-2014
EP2020608	France	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.031V870-2014
EP2020608	Great Britain	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.031V870-2014
EP0941487	Germany	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.031V870-2014
EP0941487	Denmark	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.031V870-2014
EP0941487	European Patent Convention	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.031V870-2014
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EP0941487	Finland	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.031V870-2014
EP0941487	France	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.031V870-2014
EP0941487	Great Britain	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.031V870-2014
EP0941487	Greece	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.031V870-2014
HK1024060	Hong Kong	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.031V870-2014
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EP0941487	Italy	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.031V870-2014
1998-525640	Japan	Pending	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.031V870-2014
5015615	Japan	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.031V870-2014
10-0573397	Republic of Korea	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.031V870-2014
EP0941487	Liechtenstein	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.031V870-2014
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EP0941487	Portugal	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.031V870-2014
EP0941487	Sweden	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.031V870-2014
EP0941487	Belgium	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.035V800-2010
EP0941487	Switzerland	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.035V800-2010
EP1262790	Belgium	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.035V800-2010
EP1262790	Switzerland	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.035V800-2010
EP1262790	Germany	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.035V800-2010
EP1262790	European Patent Convention	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.035V800-2010
EP1262790	Spain	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.035V800-2010
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EP1262790	Great Britain	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.035V800-2010

EP1262790	Ireland	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.035V800-2010
EP1262790	Italy	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.035V800-2010
EP1262790	Liechtenstein	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.035V800-2010
EP1262790	Netherlands	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.035V800-2010
EP1262790	Sweden	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.035V800-2010
EP2020608	Germany	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.035V800-2010
EP2020608	European Patent Convention	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.035V800-2010
09104857.5	Hong Kong	Pending	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.035V800-2010
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EP2020608	Great Britain	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.035V800-2010
EP0941487	Germany	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.035V800-2010
EP0941487	Denmark	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.035V800-2010
EP0941487	European Patent Convention	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.035V800-2010
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EP0941487	Finland	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.035V800-2010
EP0941487	France	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.035V800-2010
EP0941487	Great Britain	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.035V800-2010
EP0941487	Greece	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.035V800-2010
HK1024060	Hong Kong	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.035V800-2010
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EP0941487	Italy	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.035V800-2010
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5015615	Japan	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.44.035V800-2010
10-0573397	Republic of Korea	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.035V800-2010
EP0941487	Liechtenstein	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.035V800-2010
EP0941487	Netherlands	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.035V800-2010
EP0941487	Portugal	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.035V800-2010
EP0941487	Sweden	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.44.035V800-2010
6,236,354	United States	Granted	Reducing Satellite Signal Interference in a Global Positioning System Receiver	ATIS.3GPP.25.331V8250-2016
6,236,354	United States	Granted	Reducing Satellite Signal Interference in a Global Positioning System Receiver	ATIS.3GPP.25.453V830-2016
6,236,354	United States	Granted	Reducing Satellite Signal Interference in a Global Positioning System Receiver	ATIS.3GPP.44.031V870-2014
6,107,960	United States	Granted	Reducing Cross-Interference in a Combined GPS Receiver and Communication System	ATIS.3GPP.25.331V8250-2016
EP1051638	Belgium	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.331V8250-2016
EP1051638	Germany	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.331V8250-2016
EP1051638	European Patent Convention	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.331V8250-2016
EP1051638	Spain	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.331V8250-2016

EP1051638	Finland	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.331V8250-2016
EP1051638	France	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.331V8250-2016
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EP1051638	Ireland	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.331V8250-2016
EP1051638	Italy	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.331V8250-2016
4859273	Japan	Granted	Reducing Cross-Interference in a Combined GPS Receiver and Communication System	ATIS.3GPP.25.331V8250-2016
EP1051638	Netherlands	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.331V8250-2016
EP1051638	Sweden	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.331V8250-2016
6,107,960	United States	Granted	Reducing Cross-Interference in a Combined GPS Receiver and Communication System	ATIS.3GPP.25.413V880-2012
EP1051638	Belgium	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.413V880-2012
EP1051638	Germany	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.413V880-2012
EP1051638	European Patent Convention	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.413V880-2012
EP1051638	Spain	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.413V880-2012
EP1051638	Finland	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.413V880-2012
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EP1051638	Great Britain	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.413V880-2012
EP1051638	Ireland	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.413V880-2012
EP1051638	Italy	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.413V880-2012
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EP1051638	Sweden	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.413V880-2012
6,107,960	United States	Granted	Reducing Cross-Interference in a Combined GPS Receiver and Communication System	ATIS.3GPP.25.430V800-2009

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EP1051638	France	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.430V800-2009
EP1051638	Great Britain	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.430V800-2009
EP1051638	Ireland	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.430V800-2009
EP1051638	Italy	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.430V800-2009
4859273	Japan	Granted	Reducing Cross-Interference in a Combined GPS Receiver and Communication System	ATIS.3GPP.25.430V800-2009
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EP1051638	Sweden	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.430V800-2009
6,107,960	United States	Granted	Reducing Cross-Interference in a Combined GPS Receiver and Communication System	ATIS.3GPP.25.453V830-2016
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EP1051638	Italy	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.453V830-2016

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EP1051638	Sweden	Granted	Reducing cross-interference in a combined GPS receiver and communication system	ATIS.3GPP.25.453V830-2016
6,215,441	United States	Granted	Satellite Positioning Reference System and Method	ATIS.3GPP.25.331V8250-2016
2003246306	Australia	Granted	Satellite Positioning Reference System and Method	ATIS.3GPP.25.331V8250-2016
2004200563	Australia	Granted	Satellite Positioning Reference System and Method	ATIS.3GPP.25.331V8250-2016
EP1075665	Belgium	Granted	Satellite Positioning Reference System and Method	ATIS.3GPP.25.331V8250-2016
PI9909982-9	Brazil	Granted	METHOD And SYSTEM OF PROCESSING OF INFORMATION OF POSITION FOR SATELLITE SYSTEM FOR TRANSMISSION OF INFORMATION OF SATELLITE EVENTS And WAY OF LEGIBLE STORAGE FOR COMPUTER	ATIS.3GPP.25.331V8250-2016
6,411,254	United States	Granted	Satellite Positioning Reference System and Method	ATIS.3GPP.25.331V8250-2016
2330575	Canada	Granted	Satellite Positioning Reference System and Method	ATIS.3GPP.25.331V8250-2016
EP1075665	Germany	Granted	Satellite Positioning Reference System and Method	ATIS.3GPP.25.331V8250-2016
EP1075665	European Patent Convention	Granted	Satellite Positioning Reference System and Method	ATIS.3GPP.25.331V8250-2016
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EP1075665	Finland	Granted	Satellite Positioning Reference System and Method	ATIS.3GPP.25.331V8250-2016
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EP1075665	Great Britain	Granted	Satellite Positioning Reference System and Method	ATIS.3GPP.25.331V8250-2016
HK1036106	Hong Kong	Granted	Satellite Positioning Reference System and Method	ATIS.3GPP.25.331V8250-2016
ID0014146	Indonesia	Granted	Satellite Positioning Reference System and Method	ATIS.3GPP.25.331V8250-2016
EP1075665	Ireland	Granted	Satellite Positioning Reference System and Method	ATIS.3GPP.25.331V8250-2016
222282	India	Granted	A method and system for processing satellite position information	ATIS.3GPP.25.331V8250-2016
229029	India	Granted	A system for transmitting satellite ephemeris information and for processing satellite position information	ATIS.3GPP.25.331V8250-2016
139253	Israel	Granted	Satellite Positioning Reference System and Method	ATIS.3GPP.25.331V8250-2016
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4933490	Japan	Granted	Satellite positioning reference system and method	ATIS.3GPP.25.331V8250-2016
5362539	Japan	Granted	Satellite positioning reference system and method	ATIS.3GPP.25.331V8250-2016
5518770	Japan	Granted	Satellite positioning reference system and method	ATIS.3GPP.25.331V8250-2016
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228953	Mexico	Granted	Satellite Positioning Reference System and Method	ATIS.3GPP.25.331V8250-2016
EP1075665	Netherlands	Granted	Satellite Positioning Reference System and Method	ATIS.3GPP.25.331V8250-2016
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EP1075665	Sweden	Granted	Satellite Positioning Reference System and Method	ATIS.3GPP.25.331V8250-2016
76875	Singapore	Granted	Satellite Positioning Reference System and Method	ATIS.3GPP.25.331V8250-2016
6,215,441	United States	Granted	Satellite Positioning Reference System and Method	ATIS.3GPP.44.031V870-2014

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EP1075665	Belgium	Granted	Satellite Positioning Reference System and Method	ATIS.3GPP.44.031V870-2014
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228953	Mexico	Granted	Satellite Positioning Reference System and Method	ATIS.3GPP.44.031V870-2014
EP1075665	Netherlands	Granted	Satellite Positioning Reference System and Method	ATIS.3GPP.44.031V870-2014
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EP1075665	Sweden	Granted	Satellite Positioning Reference System and Method	ATIS.3GPP.44.031V870-2014
76875	Singapore	Granted	Satellite Positioning Reference System and Method	ATIS.3GPP.44.031V870-2014
6,061,018	United States	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
763226	Australia	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
EP1840591	Belgium	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
EP1840592	Belgium	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016

PI9910229-3	Brazil	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
2331709	Canada	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
6,307,504	United States	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
159182	Israel	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
EP1145035	Germany	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
EP1840591	Germany	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
EP1840592	Germany	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
EP2144079	Germany	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
EP2144079	European Patent Convention	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
HK1140266	Hong Kong	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
EP1145035	European Patent Convention	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
EP1840591	European Patent Convention	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
EP1840592	European Patent Convention	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
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EP1840591	Spain	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
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EP1840591	Finland	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
EP1840592	Finland	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
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EP1840591	France	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
EP1840592	France	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016

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EP2144079	Great Britain	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
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HK1079849	Hong Kong	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
HK1079850	Hong Kong	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
ID0027162	Indonesia	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
EP1840591	Ireland	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
EP1840592	Ireland	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
221693	India	Granted	A method for determining a position of a mobile satellite positioning system receiver and a data processing station	ATIS.3GPP.25.331V8250-2016
139469	Israel	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
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4965535	Japan	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
5410303	Japan	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
5792002	Japan	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
10-0622329	Republic of Korea	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
223912	Mexico	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
EP1840591	Netherlands	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016

EP1840592	Netherlands	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
ZL99808172.8	China P.R.	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
ZL200510066821.6	China P.R.	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
ZL200510066822.0	China P.R.	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
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EP1840592	Sweden	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
76717	Singapore	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
6,061,018	United States	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.413V880-2012
763226	Australia	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.413V880-2012
EP1840591	Belgium	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.413V880-2012
EP1840592	Belgium	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.413V880-2012
PI9910229-3	Brazil	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.413V880-2012
2331709	Canada	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.413V880-2012
6,307,504	United States	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.413V880-2012
159182	Israel	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.413V880-2012
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EP2144079	European Patent Convention	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.413V880-2012
HK1140266	Hong Kong	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.413V880-2012

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HK1049044	Hong Kong	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.413V880-2012
HK1079849	Hong Kong	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.413V880-2012
HK1079850	Hong Kong	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.413V880-2012
ID0027162	Indonesia	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.413V880-2012
EP1840591	Ireland	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.413V880-2012
EP1840592	Ireland	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.413V880-2012

221693	India	Granted	A method for determining a position of a mobile satellite positioning system receiver and a data processing station	ATIS.3GPP.25.413V880-2012
139469	Israel	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.413V880-2012
EP1145035	Italy	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.413V880-2012
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EP1840592	Italy	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.413V880-2012
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4965535	Japan	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.413V880-2012
5410303	Japan	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.413V880-2012
5792002	Japan	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.413V880-2012
10-0622329	Republic of Korea	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.413V880-2012
223912	Mexico	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.413V880-2012
EP1840591	Netherlands	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.413V880-2012
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ZL99808172.8	China P.R.	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.413V880-2012
ZL200510066821.6	China P.R.	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.413V880-2012
ZL200510066822.0	China P.R.	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.413V880-2012
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EP1840591	Sweden	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.413V880-2012
EP1840592	Sweden	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.413V880-2012
76717	Singapore	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.413V880-2012
6,061,018	United States	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.430V800-2009
763226	Australia	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.430V800-2009

EP1840591	Belgium	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.430V800-2009
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PI9910229-3	Brazil	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.430V800-2009
2331709	Canada	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.430V800-2009
6,307,504	United States	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.430V800-2009
159182	Israel	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.430V800-2009
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EP2144079	Germany	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.430V800-2009
EP2144079	European Patent Convention	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.430V800-2009
HK1140266	Hong Kong	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.430V800-2009
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EP1840591	Spain	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.430V800-2009
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HK1079849	Hong Kong	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.430V800-2009
HK1079850	Hong Kong	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.430V800-2009
ID0027162	Indonesia	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.430V800-2009
EP1840591	Ireland	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.430V800-2009
EP1840592	Ireland	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.430V800-2009
221693	India	Granted	A method for determining a position of a mobile satellite positioning system receiver and a data processing station	ATIS.3GPP.25.430V800-2009
139469	Israel	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.430V800-2009
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4965535	Japan	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.430V800-2009
5410303	Japan	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.430V800-2009
5792002	Japan	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.430V800-2009
10-0622329	Republic of Korea	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.430V800-2009

223912	Mexico	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.430V800-2009
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EP1145035	Sweden	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.430V800-2009
EP1840591	Sweden	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.430V800-2009
EP1840592	Sweden	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.430V800-2009
76717	Singapore	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.430V800-2009
6,061,018	United States	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
763226	Australia	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
EP1840591	Belgium	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.453V830-2016
EP1840592	Belgium	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.453V830-2016
PI9910229-3	Brazil	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
2331709	Canada	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
6,307,504	United States	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
159182	Israel	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.453V830-2016
EP1145035	Germany	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
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HK1140266	Hong Kong	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.453V830-2016
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221693	India	Granted	A method for determining a position of a mobile satellite positioning system receiver and a data processing station	ATIS.3GPP.25.453V830-2016
139469	Israel	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
EP1145035	Italy	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
EP1840591	Italy	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.453V830-2016
EP1840592	Italy	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.453V830-2016
4938172	Japan	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.453V830-2016
4965535	Japan	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.453V830-2016
5410303	Japan	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.453V830-2016
5792002	Japan	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.453V830-2016
10-0622329	Republic of Korea	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
223912	Mexico	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
EP1840591	Netherlands	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.453V830-2016
EP1840592	Netherlands	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.453V830-2016
ZL99808172.8	China P.R.	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
ZL200510066821.6	China P.R.	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.453V830-2016
ZL200510066822.0	China P.R.	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.453V830-2016
EP1145035	Sweden	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
EP1840591	Sweden	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.453V830-2016
EP1840592	Sweden	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.25.453V830-2016
76717	Singapore	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016

6,061,018	United States	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.44.031V870-2014
763226	Australia	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.44.031V870-2014
EP1840591	Belgium	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
EP1840592	Belgium	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
PI9910229-3	Brazil	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.44.031V870-2014
2331709	Canada	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.44.031V870-2014
6,307,504	United States	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.44.031V870-2014
159182	Israel	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
EP1145035	Germany	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.44.031V870-2014
EP1840591	Germany	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
EP1840592	Germany	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
EP2144079	Germany	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
EP2144079	European Patent Convention	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
HK1140266	Hong Kong	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
EP1145035	European Patent Convention	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.44.031V870-2014
EP1840591	European Patent Convention	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
EP1840592	European Patent Convention	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
EP1145035	Spain	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.44.031V870-2014
EP1840591	Spain	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
EP1840592	Spain	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
EP1145035	Finland	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.44.031V870-2014
EP1840591	Finland	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014

EP1840592	Finland	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
EP1145035	France	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.44.031V870-2014
EP1840591	France	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
EP1840592	France	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
EP1145035	Great Britain	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.44.031V870-2014
EP1840591	Great Britain	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
EP1840592	Great Britain	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
EP2144079	Great Britain	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
HK1049044	Hong Kong	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.44.031V870-2014
HK1079849	Hong Kong	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.44.031V870-2014
HK1079850	Hong Kong	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.44.031V870-2014
ID0027162	Indonesia	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.44.031V870-2014
EP1840591	Ireland	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
EP1840592	Ireland	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
221693	India	Granted	A method for determining a position of a mobile satellite positioning system receiver and a data processing station	ATIS.3GPP.44.031V870-2014
139469	Israel	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.44.031V870-2014
EP1145035	Italy	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.44.031V870-2014
EP1840591	Italy	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
EP1840592	Italy	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
4938172	Japan	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
4965535	Japan	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
5410303	Japan	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014

5792002	Japan	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
10-0622329	Republic of Korea	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.44.031V870-2014
223912	Mexico	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.44.031V870-2014
EP1840591	Netherlands	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
EP1840592	Netherlands	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
ZL99808172.8	China P.R.	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.44.031V870-2014
ZL200510066821.6	China P.R.	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
ZL200510066822.0	China P.R.	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
EP1145035	Sweden	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.44.031V870-2014
EP1840591	Sweden	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
EP1840592	Sweden	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.44.031V870-2014
76717	Singapore	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.44.031V870-2014
6,104,338	United States	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.25.331V8250-2016
749670	Australia	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.25.331V8250-2016
EP1076834	Belgium	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.25.331V8250-2016
EP1873549	Belgium	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.25.331V8250-2016
PI9911439-9	Brazil	Granted	RECEIVER, METHOD TO OPERATE A RECEIVER and METHOD TO DETERMINE the POSITION from INFORMATION, OF A SYSTEM OF POSITIONING FOR MOBILE SATELLITE (SPS)	ATIS.3GPP.25.331V8250-2016
2331684	Canada	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.25.331V8250-2016
EP1076834	Germany	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.25.331V8250-2016
EP1873549	Germany	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.25.331V8250-2016
EP1076834	European Patent Convention	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.25.331V8250-2016
EP1873549	European Patent Convention	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.25.331V8250-2016
EP1076834	Spain	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.25.331V8250-2016
EP1873549	Spain	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.25.331V8250-2016
EP1076834	Finland	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.25.331V8250-2016
EP1873549	Finland	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.25.331V8250-2016
EP1076834	France	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.25.331V8250-2016
EP1873549	France	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.25.331V8250-2016
EP1076834	Great Britain	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.25.331V8250-2016

EP1873549	Great Britain	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.25.331V8250-2016
HK1036108	Hong Kong	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.25.331V8250-2016
HK1116871	Hong Kong	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.25.331V8250-2016
ID0012285	Indonesia	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.25.331V8250-2016
EP1873549	Ireland	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.25.331V8250-2016
216405	India	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.25.331V8250-2016
139458	Israel	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.25.331V8250-2016
EP1076834	Italy	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.25.331V8250-2016
EP1873549	Italy	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.25.331V8250-2016
5726420	Japan	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.25.331V8250-2016
5558860	Japan	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.25.331V8250-2016
10-0610132	Republic of Korea	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.25.331V8250-2016
231724	Mexico	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.25.331V8250-2016
EP1076834	Netherlands	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.25.331V8250-2016
EP1873549	Netherlands	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.25.331V8250-2016
ZL99808039.X	China P.R.	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.25.331V8250-2016
EP1076834	Sweden	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.25.331V8250-2016
EP1873549	Sweden	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.25.331V8250-2016
76672	Singapore	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.25.331V8250-2016
6,104,338	United States	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.44.031V870-2014
749670	Australia	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.44.031V870-2014
EP1076834	Belgium	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.44.031V870-2014
EP1873549	Belgium	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.44.031V870-2014
PI9911439-9	Brazil	Granted	RECEIVER, METHOD TO OPERATE A RECEIVER and METHOD TO DETERMINE the POSITION from INFORMATION, OF A SYSTEM OF POSITIONING FOR MOBILE SATELLITE (SPS)	ATIS.3GPP.44.031V870-2014
2331684	Canada	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.44.031V870-2014
EP1076834	Germany	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.44.031V870-2014
EP1873549	Germany	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.44.031V870-2014
EP1076834	European Patent Convention	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.44.031V870-2014
EP1873549	European Patent Convention	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.44.031V870-2014
EP1076834	Spain	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.44.031V870-2014
EP1873549	Spain	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.44.031V870-2014
EP1076834	Finland	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.44.031V870-2014
EP1873549	Finland	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.44.031V870-2014
EP1076834	France	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.44.031V870-2014
EP1873549	France	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.44.031V870-2014
EP1076834	Great Britain	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.44.031V870-2014
EP1873549	Great Britain	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.44.031V870-2014
HK1036108	Hong Kong	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.44.031V870-2014

HK1116871	Hong Kong	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.44.031V870-2014
ID0012285	Indonesia	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.44.031V870-2014
EP1873549	Ireland	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.44.031V870-2014
216405	India	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.44.031V870-2014
139458	Israel	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.44.031V870-2014
EP1076834	Italy	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.44.031V870-2014
EP1873549	Italy	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.44.031V870-2014
5726420	Japan	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.44.031V870-2014
5558860	Japan	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.44.031V870-2014
10-0610132	Republic of Korea	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.44.031V870-2014
231724	Mexico	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.44.031V870-2014
EP1076834	Netherlands	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.44.031V870-2014
EP1873549	Netherlands	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.44.031V870-2014
ZL99808039.X	China P.R.	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.44.031V870-2014
EP1076834	Sweden	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.44.031V870-2014
EP1873549	Sweden	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.44.031V870-2014
76672	Singapore	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.44.031V870-2014
5,999,124	United States	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.331V8250-2016
751735	Australia	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.331V8250-2016
PI9909783-4	Brazil	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.331V8250-2016
2329619	Canada	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.331V8250-2016
EP1073913	Germany	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.331V8250-2016
EP2078966	Germany	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.25.331V8250-2016
EP1073913	European Patent Convention	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.331V8250-2016
EP2078966	European Patent Convention	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.25.331V8250-2016
EP1073913	Spain	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.331V8250-2016
EP2078966	Spain	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.25.331V8250-2016
EP1073913	France	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.331V8250-2016
EP2078966	France	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.25.331V8250-2016
EP1073913	Great Britain	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.331V8250-2016

EP2078966	Great Britain	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.25.331V8250-2016
HK1037233	Hong Kong	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.331V8250-2016
ID0013939	Indonesia	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.331V8250-2016
210625	India	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.25.331V8250-2016
EP1073913	Italy	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.331V8250-2016
EP2078966	Italy	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.25.331V8250-2016
5026634	Japan	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.25.331V8250-2016
5405334	Japan	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.25.331V8250-2016
10-0672265	Republic of Korea	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.331V8250-2016
224349	Mexico	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.331V8250-2016
ZL99807553.1	China P.R.	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.331V8250-2016
5,999,124	United States	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.413V880-2012
751735	Australia	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.413V880-2012
PI9909783-4	Brazil	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.413V880-2012
2329619	Canada	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.413V880-2012
EP1073913	Germany	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.413V880-2012
EP2078966	Germany	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.25.413V880-2012
EP1073913	European Patent Convention	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.413V880-2012
EP2078966	European Patent Convention	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.25.413V880-2012
EP1073913	Spain	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.413V880-2012
EP2078966	Spain	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.25.413V880-2012
EP1073913	France	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.413V880-2012

EP2078966	France	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.25.413V880-2012
EP1073913	Great Britain	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.413V880-2012
EP2078966	Great Britain	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.25.413V880-2012
HK1037233	Hong Kong	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.413V880-2012
ID0013939	Indonesia	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.413V880-2012
210625	India	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.25.413V880-2012
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EP2078966	Italy	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.25.413V880-2012
5026634	Japan	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.25.413V880-2012
5405334	Japan	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.25.413V880-2012
10-0672265	Republic of Korea	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.413V880-2012
224349	Mexico	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.413V880-2012
ZL99807553.1	China P.R.	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.413V880-2012
5,999,124	United States	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.430V800-2009
751735	Australia	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.430V800-2009
PI9909783-4	Brazil	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.430V800-2009
2329619	Canada	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.430V800-2009
EP1073913	Germany	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.430V800-2009
EP2078966	Germany	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.25.430V800-2009
EP1073913	European Patent Convention	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.430V800-2009
EP2078966	European Patent Convention	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.25.430V800-2009
EP1073913	Spain	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.430V800-2009

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EP1073913	France	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.430V800-2009
EP2078966	France	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.25.430V800-2009
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EP2078966	Great Britain	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.25.430V800-2009
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EP2078966	Italy	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.25.430V800-2009
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224349	Mexico	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.430V800-2009
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5,999,124	United States	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.453V830-2016
751735	Australia	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.453V830-2016
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224349	Mexico	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.25.453V830-2016
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6,215,442	United States	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
750853	Australia	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
PI9909673-0	Brazil	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
PI9917733-1	Brazil	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
PI9917732-3	Brazil	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
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2557823	Canada	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
6,433,731	United States	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
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EP1306688	European Patent Convention	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
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EP1306688	France	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
EP1306688	Great Britain	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
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6,839,021	United States	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
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EP1566655	European Patent Convention	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
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EP1566655	France	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
EP1566655	Great Britain	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
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HK1078136	Hong Kong	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
HK1083244	Hong Kong	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
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237544	India	Granted	A method for determining time associated with a satellite positioning system	ATIS.3GPP.25.331V8250-2016
202337	India	Granted	A method for determining a reference time	ATIS.3GPP.25.331V8250-2016
EP2017640	Italy	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
4727815	Japan	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
4861379	Japan	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
4843004	Japan	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
2011-156780	Japan	Pending	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
10-0622327	Republic of Korea	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
10-0749712	Republic of Korea	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.331V8250-2016
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EP2017640	Netherlands	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
ZL99807253.2	China P.R.	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
ZL200510003854.6	China P.R.	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
EP2017640	Sweden	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.331V8250-2016
6,215,442	United States	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.413V880-2012

750853	Australia	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.413V880-2012
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PI9917732-3	Brazil	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.413V880-2012
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2557823	Canada	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.413V880-2012
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EP1306688	Great Britain	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.413V880-2012
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6,839,021	United States	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.413V880-2012
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EP1566655	Great Britain	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.413V880-2012
EP1566655	Italy	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.413V880-2012
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EP2017640	Great Britain	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.413V880-2012
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HK1078136	Hong Kong	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.413V880-2012
HK1083244	Hong Kong	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.413V880-2012
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237544	India	Granted	A method for determining time associated with a satellite positioning system	ATIS.3GPP.25.413V880-2012
202337	India	Granted	A method for determining a reference time	ATIS.3GPP.25.413V880-2012
EP2017640	Italy	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.413V880-2012
4727815	Japan	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.413V880-2012
4861379	Japan	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.413V880-2012
4843004	Japan	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.413V880-2012
2011-156780	Japan	Pending	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.413V880-2012

10-0622327	Republic of Korea	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.413V880-2012
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EP2017640	Sweden	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.413V880-2012
6,215,442	United States	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.430V800-2009
750853	Australia	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.430V800-2009
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2557823	Canada	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.430V800-2009
6,433,731	United States	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.430V800-2009
EP1306688	Germany	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.430V800-2009
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EP1306688	Italy	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.430V800-2009
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EP1306688	Germany	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
EP1306688	European Patent Convention	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
EP1306688	Spain	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
EP1306688	France	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
EP1306688	Great Britain	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
EP1306688	Italy	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
6,597,311	United States	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
6,839,021	United States	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
EP2017640	Germany	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.453V830-2016
EP1566655	European Patent Convention	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.453V830-2016
EP1566655	Germany	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.453V830-2016
EP1566655	Spain	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.453V830-2016
EP1566655	France	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.453V830-2016
EP1566655	Great Britain	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.453V830-2016
EP1566655	Italy	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.453V830-2016
EP2017640	European Patent Convention	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.453V830-2016
EP2017640	Spain	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.453V830-2016

EP2017640	Finland	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.453V830-2016
EP2017640	France	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.453V830-2016
EP2017640	Great Britain	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.453V830-2016
HK1036107	Hong Kong	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
HK1078136	Hong Kong	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
HK1083244	Hong Kong	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.453V830-2016
IDP0024628	Indonesia	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.453V830-2016
239101	India	Granted	A method for determining time associated with a satellite positioning system	ATIS.3GPP.25.453V830-2016
234620	India	Granted	A method for determining time associated with a satellite positioning system	ATIS.3GPP.25.453V830-2016
237544	India	Granted	A method for determining time associated with a satellite positioning system	ATIS.3GPP.25.453V830-2016
202337	India	Granted	A method for determining a reference time	ATIS.3GPP.25.453V830-2016
EP2017640	Italy	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.453V830-2016
4727815	Japan	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.453V830-2016
4861379	Japan	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.453V830-2016
4843004	Japan	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.453V830-2016
2011-156780	Japan	Pending	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.453V830-2016
10-0622327	Republic of Korea	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
10-0749712	Republic of Korea	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
238780	Mexico	Granted	Method and Apparatus for Determining Time in a Satellite Positioning System	ATIS.3GPP.25.453V830-2016
EP2017640	Netherlands	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.453V830-2016
ZL99807253.2	China P.R.	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.453V830-2016
ZL200510003854.6	China P.R.	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.453V830-2016
EP2017640	Sweden	Granted	Method and apparatus for determining time in a satellite positioning system	ATIS.3GPP.25.453V830-2016
755817	Australia	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.331V8250-2016
EP1108223	Belgium	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.331V8250-2016
PI9912895-0	Brazil	Granted	Method and apparatus for time-division power assignments in a wireless communication system	ATIS.3GPP.25.331V8250-2016
2339999	Canada	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.331V8250-2016
2640651	Canada	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.331V8250-2016
EP1108223	Germany	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.331V8250-2016
EP1108223	European Patent Convention	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.331V8250-2016
EP1108223	Spain	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.331V8250-2016
EP1108223	Finland	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.331V8250-2016
EP1108223	France	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.331V8250-2016
EP1108223	Great Britain	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.331V8250-2016
HK1039981	Hong Kong	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.331V8250-2016
ID0016941	Indonesia	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.331V8250-2016
EP1108223	Ireland	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.331V8250-2016
214463	India	Granted	A method for reducing search time and a satellite positioning systems	ATIS.3GPP.25.331V8250-2016
141314	Israel	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.331V8250-2016

EP1108223	Italy	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.331V8250-2016
5128732	Japan	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.331V8250-2016
2012-023280	Japan	Pending	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.331V8250-2016
5980981	Japan	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.331V8250-2016
10-0672266	Republic of Korea	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.331V8250-2016
238821	Mexico	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.331V8250-2016
EP1108223	Netherlands	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.331V8250-2016
ZL99811902.4	China P.R.	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.331V8250-2016
EP1108223	Sweden	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.331V8250-2016
755817	Australia	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.413V880-2012
EP1108223	Belgium	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.413V880-2012
PI9912895-0	Brazil	Granted	Method and apparatus for time-division power assignments in a wireless communication system	ATIS.3GPP.25.413V880-2012
2339999	Canada	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.413V880-2012
2640651	Canada	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.413V880-2012
EP1108223	Germany	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.413V880-2012
EP1108223	European Patent Convention	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.413V880-2012
EP1108223	Spain	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.413V880-2012
EP1108223	Finland	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.413V880-2012
EP1108223	France	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.413V880-2012
EP1108223	Great Britain	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.413V880-2012
HK1039981	Hong Kong	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.413V880-2012
ID0016941	Indonesia	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.413V880-2012
EP1108223	Ireland	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.413V880-2012
214463	India	Granted	A method for reducing search time and a satellite positioning systems	ATIS.3GPP.25.413V880-2012
141314	Israel	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.413V880-2012
EP1108223	Italy	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.413V880-2012
5128732	Japan	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.413V880-2012
2012-023280	Japan	Pending	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.413V880-2012
5980981	Japan	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.413V880-2012
10-0672266	Republic of Korea	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.413V880-2012
238821	Mexico	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.413V880-2012
EP1108223	Netherlands	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.413V880-2012
ZL99811902.4	China P.R.	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.413V880-2012
EP1108223	Sweden	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.413V880-2012
755817	Australia	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.430V800-2009
EP1108223	Belgium	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.430V800-2009
PI9912895-0	Brazil	Granted	Method and apparatus for time-division power assignments in a wireless communication system	ATIS.3GPP.25.430V800-2009
2339999	Canada	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.430V800-2009
2640651	Canada	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.430V800-2009

EP1108223	Germany	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.430V800-2009
EP1108223	European Patent Convention	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.430V800-2009
EP1108223	Spain	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.430V800-2009
EP1108223	Finland	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.430V800-2009
EP1108223	France	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.430V800-2009
EP1108223	Great Britain	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.430V800-2009
HK1039981	Hong Kong	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.430V800-2009
ID0016941	Indonesia	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.430V800-2009
EP1108223	Ireland	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.430V800-2009
214463	India	Granted	A method for reducing search time and a satellite positioning systems	ATIS.3GPP.25.430V800-2009
141314	Israel	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.430V800-2009
EP1108223	Italy	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.430V800-2009
5128732	Japan	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.430V800-2009
2012-023280	Japan	Pending	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.430V800-2009
5980981	Japan	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.430V800-2009
10-0672266	Republic of Korea	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.430V800-2009
238821	Mexico	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.430V800-2009
EP1108223	Netherlands	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.430V800-2009
ZL99811902.4	China P.R.	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.430V800-2009
EP1108223	Sweden	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.430V800-2009
755817	Australia	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.453V830-2016
EP1108223	Belgium	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.453V830-2016
PI9912895-0	Brazil	Granted	Method and apparatus for time-division power assignments in a wireless communication system	ATIS.3GPP.25.453V830-2016
2339999	Canada	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.453V830-2016
2640651	Canada	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.453V830-2016
EP1108223	Germany	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.453V830-2016
EP1108223	European Patent Convention	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.453V830-2016
EP1108223	Spain	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.453V830-2016
EP1108223	Finland	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.453V830-2016
EP1108223	France	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.453V830-2016
EP1108223	Great Britain	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.453V830-2016
HK1039981	Hong Kong	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.453V830-2016
ID0016941	Indonesia	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.453V830-2016
EP1108223	Ireland	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.453V830-2016
214463	India	Granted	A method for reducing search time and a satellite positioning systems	ATIS.3GPP.25.453V830-2016
141314	Israel	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.453V830-2016
EP1108223	Italy	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.453V830-2016
5128732	Japan	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.453V830-2016
2012-023280	Japan	Pending	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.453V830-2016

5980981	Japan	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.453V830-2016
10-0672266	Republic of Korea	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.453V830-2016
238821	Mexico	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.453V830-2016
EP1108223	Netherlands	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.453V830-2016
ZL99811902.4	China P.R.	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.25.453V830-2016
EP1108223	Sweden	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.25.453V830-2016
755817	Australia	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.44.031V870-2014
EP1108223	Belgium	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.44.031V870-2014
PI9912895-0	Brazil	Granted	Method and apparatus for time-division power assignments in a wireless communication system	ATIS.3GPP.44.031V870-2014
2339999	Canada	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.44.031V870-2014
2640651	Canada	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.44.031V870-2014
EP1108223	Germany	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.44.031V870-2014
EP1108223	European Patent Convention	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.44.031V870-2014
EP1108223	Spain	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.44.031V870-2014
EP1108223	Finland	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.44.031V870-2014
EP1108223	France	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.44.031V870-2014
EP1108223	Great Britain	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.44.031V870-2014
HK1039981	Hong Kong	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.44.031V870-2014
ID0016941	Indonesia	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.44.031V870-2014
EP1108223	Ireland	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.44.031V870-2014
214463	India	Granted	A method for reducing search time and a satellite positioning systems	ATIS.3GPP.44.031V870-2014
141314	Israel	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.44.031V870-2014
EP1108223	Italy	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.44.031V870-2014
5128732	Japan	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.44.031V870-2014
2012-023280	Japan	Pending	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.44.031V870-2014
5980981	Japan	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.44.031V870-2014
10-0672266	Republic of Korea	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.44.031V870-2014
238821	Mexico	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.44.031V870-2014
EP1108223	Netherlands	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.44.031V870-2014
ZL99811902.4	China P.R.	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.44.031V870-2014
EP1108223	Sweden	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.44.031V870-2014
6,313,786	United States	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.331V8250-2016
770440	Australia	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.331V8250-2016
PI0007834-4	Brazil	Granted	Method and apparatus for measurement processing of satellite positioning system (SYP) signals	ATIS.3GPP.25.331V8250-2016
6,707,422	United States	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.331V8250-2016

2359662	Canada	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
2634677	Canada	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.331V8250-2016
2634618	Canada	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
ZL00805127.5	China P.R.	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.331V8250-2016
ZL200710089630.0	China P.R.	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
201310697716.7	China P.R.	Pending	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP1166145	Germany	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP1775598	Germany	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP1788405	Germany	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP2037290	Germany	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP1166145	European Patent Convention	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP1775598	European Patent Convention	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP1788405	European Patent Convention	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP2037290	European Patent Convention	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
HK1108185	Hong Kong	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP1166145	Spain	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP1775598	Spain	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP1788405	Spain	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP2037290	Spain	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP2037290	Finland	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP1166145	France	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP1775598	France	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016

EP1788405	France	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP2037290	France	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP1166145	Great Britain	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP1775598	Great Britain	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP1788405	Great Britain	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP2037290	Great Britain	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
HK1044377	Hong Kong	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.331V8250-2016
216413	India	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP1166145	Italy	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP1775598	Italy	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP1788405	Italy	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP2037290	Italy	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
4270757	Japan	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
5558683	Japan	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
5377956	Japan	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
5931521	Japan	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.331V8250-2016
2014-118942	Japan	Pending	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.331V8250-2016
10-0732795	Republic of Korea	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.331V8250-2016
229201	Mexico	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.331V8250-2016
EP2037290	Netherlands	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
EP2037290	Sweden	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.331V8250-2016
4169	Vietnam	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.331V8250-2016

6,313,786	United States	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.413V880-2012
770440	Australia	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.413V880-2012
PI0007834-4	Brazil	Granted	Method and apparatus for measurement processing of satellite positioning system (SYP) signals	ATIS.3GPP.25.413V880-2012
6,707,422	United States	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.413V880-2012
2359662	Canada	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.413V880-2012
2634677	Canada	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.413V880-2012
2634618	Canada	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.413V880-2012
ZL00805127.5	China P.R.	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.413V880-2012
ZL200710089630.0	China P.R.	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.413V880-2012
201310697716.7	China P.R.	Pending	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.413V880-2012
EP1166145	Germany	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.413V880-2012
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EP1166145	European Patent Convention	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.413V880-2012
EP1775598	European Patent Convention	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.413V880-2012
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EP2037290	European Patent Convention	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.413V880-2012
HK1108185	Hong Kong	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.413V880-2012
EP1166145	Spain	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.413V880-2012
EP1775598	Spain	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.413V880-2012
EP1788405	Spain	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.413V880-2012

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EP2037290	Finland	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.413V880-2012
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EP2037290	France	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.413V880-2012
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EP1788405	Great Britain	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.413V880-2012
EP2037290	Great Britain	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.413V880-2012
HK1044377	Hong Kong	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.413V880-2012
216413	India	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.413V880-2012
EP1166145	Italy	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.413V880-2012
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5377956	Japan	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.413V880-2012
5931521	Japan	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.413V880-2012
2014-118942	Japan	Pending	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.413V880-2012
10-0732795	Republic of Korea	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.413V880-2012

229201	Mexico	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.413V880-2012
EP2037290	Netherlands	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.413V880-2012
EP2037290	Sweden	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.413V880-2012
4169	Vietnam	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.413V880-2012
6,313,786	United States	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.430V800-2009
770440	Australia	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.430V800-2009
PI0007834-4	Brazil	Granted	Method and apparatus for measurement processing of satellite positioning system (SYP) signals	ATIS.3GPP.25.430V800-2009
6,707,422	United States	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.430V800-2009
2359662	Canada	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.430V800-2009
2634677	Canada	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.430V800-2009
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ZL00805127.5	China P.R.	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.430V800-2009
ZL200710089630.0	China P.R.	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.430V800-2009
201310697716.7	China P.R.	Pending	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.430V800-2009
EP1166145	Germany	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.430V800-2009
EP1775598	Germany	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.430V800-2009
EP1788405	Germany	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.430V800-2009
EP2037290	Germany	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.430V800-2009
EP1166145	European Patent Convention	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.430V800-2009
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EP2037290	European Patent Convention	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.430V800-2009

HK1108185	Hong Kong	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.430V800-2009
EP1166145	Spain	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.430V800-2009
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EP2037290	Spain	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.430V800-2009
EP2037290	Finland	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.430V800-2009
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EP1788405	Great Britain	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.430V800-2009
EP2037290	Great Britain	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.430V800-2009
HK1044377	Hong Kong	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.430V800-2009
216413	India	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.430V800-2009
EP1166145	Italy	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.430V800-2009
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5931521	Japan	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.430V800-2009
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229201	Mexico	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.430V800-2009
EP2037290	Netherlands	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.430V800-2009
EP2037290	Sweden	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.430V800-2009
4169	Vietnam	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.430V800-2009
6,313,786	United States	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.453V830-2016
770440	Australia	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.453V830-2016
PI0007834-4	Brazil	Granted	Method and apparatus for measurement processing of satellite positioning system (SYP) signals	ATIS.3GPP.25.453V830-2016
6,707,422	United States	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.453V830-2016
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ZL200710089630.0	China P.R.	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.453V830-2016
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EP2037290	European Patent Convention	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.453V830-2016
HK1108185	Hong Kong	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.453V830-2016
EP1166145	Spain	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.453V830-2016
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EP1788405	Spain	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.453V830-2016
EP2037290	Spain	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.453V830-2016
EP2037290	Finland	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.453V830-2016
EP1166145	France	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.453V830-2016
EP1775598	France	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.453V830-2016
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5931521	Japan	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.453V830-2016
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229201	Mexico	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.453V830-2016
EP2037290	Netherlands	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.453V830-2016
EP2037290	Sweden	Granted	Method and apparatus for measurement processing of satellite positioning system (SPS) signals	ATIS.3GPP.25.453V830-2016
4169	Vietnam	Granted	Method and Apparatus for Measurement Processing of Satellite Positioning System (SPS) Signals	ATIS.3GPP.25.453V830-2016
6,677,894	United States	Granted	Method and apparatus for providing location-based information via a computer network	ATIS.3GPP.25.331V8250-2016
6,677,894	United States	Granted	Method and apparatus for providing location-based information via a computer network	ATIS.3GPP.25.331V8250-2016
6,677,894	United States	Granted	Method and apparatus for providing location-based information via a computer network	ATIS.3GPP.25.413V880-2012
6,677,894	United States	Granted	Method and apparatus for providing location-based information via a computer network	ATIS.3GPP.25.413V880-2012
6,677,894	United States	Granted	Method and apparatus for providing location-based information via a computer network	ATIS.3GPP.25.430V800-2009
6,677,894	United States	Granted	Method and apparatus for providing location-based information via a computer network	ATIS.3GPP.25.430V800-2009
6,677,894	United States	Granted	Method and apparatus for providing location-based information via a computer network	ATIS.3GPP.25.453V830-2016
6,677,894	United States	Granted	Method and apparatus for providing location-based information via a computer network	ATIS.3GPP.25.453V830-2016
6,677,894	United States	Granted	Method and apparatus for providing location-based information via a computer network	ATIS.3GPP.43.059V810-2010
6,677,894	United States	Granted	Method and apparatus for providing location-based information via a computer network	ATIS.3GPP.43.059V810-2010

6,377,209	United States	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.25.331V8250-2016
773464	Australia	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.25.331V8250-2016
EP1171779	Belgium	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.331V8250-2016
PI0009100-6	Brazil	Granted	Method and apparatus for measuring time, receiver and mobile receiver, as well as apparatus for assisting in time measuring related to satellite data messages for use with a satellite positioning system (SPS)	ATIS.3GPP.25.331V8250-2016
6,583,757	United States	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.25.331V8250-2016
2367032	Canada	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.331V8250-2016
ZL00805407.X	China P.R.	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.25.331V8250-2016
EP1171779	Germany	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.331V8250-2016
EP1171779	European Patent Convention	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.331V8250-2016
EP1171779	Spain	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.331V8250-2016
EP1171779	Finland	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.331V8250-2016
EP1171779	France	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.331V8250-2016
EP1171779	Great Britain	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.331V8250-2016
HK1042749	Hong Kong	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.25.331V8250-2016
EP1171779	Ireland	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.331V8250-2016
210564	India	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.331V8250-2016
EP1171779	Italy	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.331V8250-2016
5770028	Japan	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.331V8250-2016
5931704	Japan	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.331V8250-2016
2014-143363	Japan	Pending	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.331V8250-2016
10-0829617	Republic of Korea	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.331V8250-2016

222020	Mexico	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.25.331V8250-2016
EP1171779	Netherlands	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.331V8250-2016
EP1171779	Sweden	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.331V8250-2016
6,377,209	United States	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.25.413V880-2012
773464	Australia	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.25.413V880-2012
EP1171779	Belgium	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.413V880-2012
PI0009100-6	Brazil	Granted	Method and apparatus for measuring time, receiver and mobile receiver, as well as apparatus for assisting in time measuring related to satellite data messages for use with a satellite positioning system (SPS)	ATIS.3GPP.25.413V880-2012
6,583,757	United States	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.25.413V880-2012
2367032	Canada	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.413V880-2012
ZL00805407.X	China P.R.	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.25.413V880-2012
EP1171779	Germany	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.413V880-2012
EP1171779	European Patent Convention	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.413V880-2012
EP1171779	Spain	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.413V880-2012
EP1171779	Finland	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.413V880-2012
EP1171779	France	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.413V880-2012
EP1171779	Great Britain	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.413V880-2012
HK1042749	Hong Kong	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.25.413V880-2012
EP1171779	Ireland	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.413V880-2012
210564	India	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.413V880-2012
EP1171779	Italy	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.413V880-2012
5770028	Japan	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.413V880-2012

5931704	Japan	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.413V880-2012
2014-143363	Japan	Pending	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.413V880-2012
10-0829617	Republic of Korea	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.413V880-2012
222020	Mexico	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.25.413V880-2012
EP1171779	Netherlands	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.413V880-2012
EP1171779	Sweden	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.413V880-2012
6,377,209	United States	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.25.430V800-2009
773464	Australia	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.25.430V800-2009
EP1171779	Belgium	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.430V800-2009
PI0009100-6	Brazil	Granted	Method and apparatus for measuring time, receiver and mobile receiver, as well as apparatus for assisting in time measuring related to satellite data messages for use with a satellite positioning system (SPS)	ATIS.3GPP.25.430V800-2009
6,583,757	United States	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.25.430V800-2009
2367032	Canada	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.430V800-2009
ZL00805407.X	China P.R.	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.25.430V800-2009
EP1171779	Germany	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.430V800-2009
EP1171779	European Patent Convention	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.430V800-2009
EP1171779	Spain	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.430V800-2009
EP1171779	Finland	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.430V800-2009
EP1171779	France	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.430V800-2009
EP1171779	Great Britain	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.430V800-2009
HK1042749	Hong Kong	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.25.430V800-2009
EP1171779	Ireland	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.430V800-2009

210564	India	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.430V800-2009
EP1171779	Italy	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.430V800-2009
5770028	Japan	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.430V800-2009
5931704	Japan	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.430V800-2009
2014-143363	Japan	Pending	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.430V800-2009
10-0829617	Republic of Korea	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.430V800-2009
222020	Mexico	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.25.430V800-2009
EP1171779	Netherlands	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.430V800-2009
EP1171779	Sweden	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.430V800-2009
6,377,209	United States	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.25.453V830-2016
773464	Australia	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.25.453V830-2016
EP1171779	Belgium	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.453V830-2016
PI0009100-6	Brazil	Granted	Method and apparatus for measuring time, receiver and mobile receiver, as well as apparatus for assisting in time measuring related to satellite data messages for use with a satellite positioning system (SPS)	ATIS.3GPP.25.453V830-2016
6,583,757	United States	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.25.453V830-2016
2367032	Canada	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.453V830-2016
ZL00805407.X	China P.R.	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.25.453V830-2016
EP1171779	Germany	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.453V830-2016
EP1171779	European Patent Convention	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.453V830-2016
EP1171779	Spain	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.453V830-2016
EP1171779	Finland	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.453V830-2016
EP1171779	France	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.453V830-2016

EP1171779	Great Britain	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.453V830-2016
HK1042749	Hong Kong	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.25.453V830-2016
EP1171779	Ireland	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.453V830-2016
210564	India	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.453V830-2016
EP1171779	Italy	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.453V830-2016
5770028	Japan	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.453V830-2016
5931704	Japan	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.453V830-2016
2014-143363	Japan	Pending	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.453V830-2016
10-0829617	Republic of Korea	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.453V830-2016
222020	Mexico	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.25.453V830-2016
EP1171779	Netherlands	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.453V830-2016
EP1171779	Sweden	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.25.453V830-2016
6,377,209	United States	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.44.031V870-2014
773464	Australia	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.44.031V870-2014
EP1171779	Belgium	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.44.031V870-2014
PI0009100-6	Brazil	Granted	Method and apparatus for measuring time, receiver and mobile receiver, as well as apparatus for assisting in time measuring related to satellite data messages for use with a satellite positioning system (SPS)	ATIS.3GPP.44.031V870-2014
6,583,757	United States	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.44.031V870-2014
2367032	Canada	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.44.031V870-2014
ZL00805407.X	China P.R.	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.44.031V870-2014
EP1171779	Germany	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.44.031V870-2014
EP1171779	European Patent Convention	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.44.031V870-2014

EP1171779	Spain	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.44.031V870-2014
EP1171779	Finland	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.44.031V870-2014
EP1171779	France	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.44.031V870-2014
EP1171779	Great Britain	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.44.031V870-2014
HK1042749	Hong Kong	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.44.031V870-2014
EP1171779	Ireland	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.44.031V870-2014
210564	India	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.44.031V870-2014
EP1171779	Italy	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.44.031V870-2014
5770028	Japan	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.44.031V870-2014
5931704	Japan	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.44.031V870-2014
2014-143363	Japan	Pending	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.44.031V870-2014
10-0829617	Republic of Korea	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.44.031V870-2014
222020	Mexico	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.44.031V870-2014
EP1171779	Netherlands	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.44.031V870-2014
EP1171779	Sweden	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.44.031V870-2014
2002353800	Australia	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.331V8250-2016
7,570,958	United States	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.331V8250-2016
2463543	Canada	Granted	Methods and Apparatuses for Controlling Distribution of Location Information	ATIS.3GPP.25.331V8250-2016
EP1435184	Germany	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.331V8250-2016
EP1435184	European Patent Convention	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.331V8250-2016
EP1435184	France	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.331V8250-2016
EP1435184	Great Britain	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.331V8250-2016
161315	Israel	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.331V8250-2016
237672	India	Granted	A method and system for communicating a location of first mobile communication system to a second mobile communication system	ATIS.3GPP.25.331V8250-2016
4563676	Japan	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.331V8250-2016
5345566	Japan	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.331V8250-2016
10-0941337	Republic of Korea	Granted	Methods and apparatuses for controlling Distribution of location information	ATIS.3GPP.25.331V8250-2016

2002353800	Australia	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.413V880-2012
7,570,958	United States	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.413V880-2012
2463543	Canada	Granted	Methods and Apparatuses for Controlling Distribution of Location Information	ATIS.3GPP.25.413V880-2012
EP1435184	Germany	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.413V880-2012
EP1435184	European Patent Convention	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.413V880-2012
EP1435184	France	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.413V880-2012
EP1435184	Great Britain	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.413V880-2012
161315	Israel	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.413V880-2012
237672	India	Granted	A method and system for communicating a location of first mobile communication system to a second mobile communication system	ATIS.3GPP.25.413V880-2012
4563676	Japan	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.413V880-2012
5345566	Japan	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.413V880-2012
10-0941337	Republic of Korea	Granted	Methods and apparatuses for controlling Distribution of location information	ATIS.3GPP.25.413V880-2012
2002353800	Australia	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.430V800-2009
7,570,958	United States	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.430V800-2009
2463543	Canada	Granted	Methods and Apparatuses for Controlling Distribution of Location Information	ATIS.3GPP.25.430V800-2009
EP1435184	Germany	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.430V800-2009
EP1435184	European Patent Convention	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.430V800-2009
EP1435184	France	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.430V800-2009
EP1435184	Great Britain	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.430V800-2009
161315	Israel	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.430V800-2009
237672	India	Granted	A method and system for communicating a location of first mobile communication system to a second mobile communication system	ATIS.3GPP.25.430V800-2009
4563676	Japan	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.430V800-2009
5345566	Japan	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.430V800-2009
10-0941337	Republic of Korea	Granted	Methods and apparatuses for controlling Distribution of location information	ATIS.3GPP.25.430V800-2009
2002353800	Australia	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.453V830-2016
7,570,958	United States	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.453V830-2016
2463543	Canada	Granted	Methods and Apparatuses for Controlling Distribution of Location Information	ATIS.3GPP.25.453V830-2016
EP1435184	Germany	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.453V830-2016
EP1435184	European Patent Convention	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.453V830-2016
EP1435184	France	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.453V830-2016
EP1435184	Great Britain	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.453V830-2016
161315	Israel	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.453V830-2016
237672	India	Granted	A method and system for communicating a location of first mobile communication system to a second mobile communication system	ATIS.3GPP.25.453V830-2016
4563676	Japan	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.453V830-2016
5345566	Japan	Granted	Methods and apparatuses for controlling distribution of location information	ATIS.3GPP.25.453V830-2016
10-0941337	Republic of Korea	Granted	Methods and apparatuses for controlling Distribution of location information	ATIS.3GPP.25.453V830-2016
6,665,541	United States	Granted	Methods and Apparatuses for Using Mobile GPS Receivers to Synchronize Basestations in Cellular Networks	ATIS.3GPP.25.331V8250-2016

2001261816	Australia	Granted	Methods and apparatuses for using mobile GPS stations to synchronize basestations	ATIS.3GPP.25.331V8250-2016
7,171,225	United States	Granted	Methods and Apparatuses for Using Mobile GPS Receivers to Synchronize Basestations in Cellular Networks	ATIS.3GPP.25.331V8250-2016
7,801,108	United States	Granted	Methods and apparatuses for using mobile GPS receivers to synchronize basestations in cellular networks	ATIS.3GPP.25.331V8250-2016
2447914	Canada	Granted	Methods and apparatuses for using mobile GPS stations to synchronize basestations	ATIS.3GPP.25.331V8250-2016
ZL01823298.1	China P.R.	Granted	Methods and Apparatuses for Using Mobile GPS Stations to Synchronize Basestations	ATIS.3GPP.25.331V8250-2016
HK1063889	Hong Kong	Granted	Methods and Apparatuses for Using Mobile GPS Stations to Synchronize Basestations	ATIS.3GPP.25.331V8250-2016
4860901	Japan	Granted	Methods and apparatuses for using mobile GPS stations to synchronize basestations	ATIS.3GPP.25.331V8250-2016
5215440	Japan	Granted	Methods and apparatuses for using mobile GPS stations to synchronize basestations	ATIS.3GPP.25.331V8250-2016
10-0881869	Republic of Korea	Granted	Methods and apparatuses for using mobile GPS stations to synchronize basestations	ATIS.3GPP.25.331V8250-2016
6,665,541	United States	Granted	Methods and Apparatuses for Using Mobile GPS Receivers to Synchronize Basestations in Cellular Networks	ATIS.3GPP.25.413V880-2012
2001261816	Australia	Granted	Methods and apparatuses for using mobile GPS stations to synchronize basestations	ATIS.3GPP.25.413V880-2012
7,171,225	United States	Granted	Methods and Apparatuses for Using Mobile GPS Receivers to Synchronize Basestations in Cellular Networks	ATIS.3GPP.25.413V880-2012
7,801,108	United States	Granted	Methods and apparatuses for using mobile GPS receivers to synchronize basestations in cellular networks	ATIS.3GPP.25.413V880-2012
2447914	Canada	Granted	Methods and apparatuses for using mobile GPS stations to synchronize basestations	ATIS.3GPP.25.413V880-2012
ZL01823298.1	China P.R.	Granted	Methods and Apparatuses for Using Mobile GPS Stations to Synchronize Basestations	ATIS.3GPP.25.413V880-2012
HK1063889	Hong Kong	Granted	Methods and Apparatuses for Using Mobile GPS Stations to Synchronize Basestations	ATIS.3GPP.25.413V880-2012
4860901	Japan	Granted	Methods and apparatuses for using mobile GPS stations to synchronize basestations	ATIS.3GPP.25.413V880-2012
5215440	Japan	Granted	Methods and apparatuses for using mobile GPS stations to synchronize basestations	ATIS.3GPP.25.413V880-2012
10-0881869	Republic of Korea	Granted	Methods and apparatuses for using mobile GPS stations to synchronize basestations	ATIS.3GPP.25.413V880-2012
6,665,541	United States	Granted	Methods and Apparatuses for Using Mobile GPS Receivers to Synchronize Basestations in Cellular Networks	ATIS.3GPP.25.430V800-2009
2001261816	Australia	Granted	Methods and apparatuses for using mobile GPS stations to synchronize basestations	ATIS.3GPP.25.430V800-2009
7,171,225	United States	Granted	Methods and Apparatuses for Using Mobile GPS Receivers to Synchronize Basestations in Cellular Networks	ATIS.3GPP.25.430V800-2009

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2447914	Canada	Granted	Methods and apparatuses for using mobile GPS stations to synchronize basestations	ATIS.3GPP.25.430V800-2009
ZL01823298.1	China P.R.	Granted	Methods and Apparatuses for Using Mobile GPS Stations to Synchronize Basestations	ATIS.3GPP.25.430V800-2009
HK1063889	Hong Kong	Granted	Methods and Apparatuses for Using Mobile GPS Stations to Synchronize Basestations	ATIS.3GPP.25.430V800-2009
4860901	Japan	Granted	Methods and apparatuses for using mobile GPS stations to synchronize basestations	ATIS.3GPP.25.430V800-2009
5215440	Japan	Granted	Methods and apparatuses for using mobile GPS stations to synchronize basestations	ATIS.3GPP.25.430V800-2009
10-0881869	Republic of Korea	Granted	Methods and apparatuses for using mobile GPS stations to synchronize basestations	ATIS.3GPP.25.430V800-2009
6,665,541	United States	Granted	Methods and Apparatuses for Using Mobile GPS Receivers to Synchronize Basestations in Cellular Networks	ATIS.3GPP.25.453V830-2016
2001261816	Australia	Granted	Methods and apparatuses for using mobile GPS stations to synchronize basestations	ATIS.3GPP.25.453V830-2016
7,171,225	United States	Granted	Methods and Apparatuses for Using Mobile GPS Receivers to Synchronize Basestations in Cellular Networks	ATIS.3GPP.25.453V830-2016
7,801,108	United States	Granted	Methods and apparatuses for using mobile GPS receivers to synchronize basestations in cellular networks	ATIS.3GPP.25.453V830-2016
2447914	Canada	Granted	Methods and apparatuses for using mobile GPS stations to synchronize basestations	ATIS.3GPP.25.453V830-2016
ZL01823298.1	China P.R.	Granted	Methods and Apparatuses for Using Mobile GPS Stations to Synchronize Basestations	ATIS.3GPP.25.453V830-2016
HK1063889	Hong Kong	Granted	Methods and Apparatuses for Using Mobile GPS Stations to Synchronize Basestations	ATIS.3GPP.25.453V830-2016
4860901	Japan	Granted	Methods and apparatuses for using mobile GPS stations to synchronize basestations	ATIS.3GPP.25.453V830-2016
5215440	Japan	Granted	Methods and apparatuses for using mobile GPS stations to synchronize basestations	ATIS.3GPP.25.453V830-2016
10-0881869	Republic of Korea	Granted	Methods and apparatuses for using mobile GPS stations to synchronize basestations	ATIS.3GPP.25.453V830-2016
7,120,134	United States	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
EP1827050	Austria	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2202905	Austria	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
2002255575	Australia	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
2007237369	Australia	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1827050	Belgium	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2202905	Belgium	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
PI0207421-4	Brazil	Pending	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
BR1220150323290	Brazil	Pending	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014

7,940,720	United States	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
2438527	Canada	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
2806712	Canada	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1827050	Switzerland	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2202905	Switzerland	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
ZL02807463.7	China P.R.	Granted	Method and apparatus for controlling transmit power of a supplemental channel in a reverse link	ATIS.3GPP.25.321V8170-2014
ZL200610103016.0	China P.R.	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
8,098,581	United States	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1436910	Germany	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
EP1524874	Germany	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
EP1827050	Germany	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2202905	Germany	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1827050	Denmark	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2202905	Denmark	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1436910	European Patent Convention	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
EP1524874	European Patent Convention	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
EP1827050	European Patent Convention	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2202905	European Patent Convention	Granted	Method and apparatus for reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
HK1144988	Hong Kong	Granted	Method and apparatus for reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1524874	Spain	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
EP1827050	Spain	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2202905	Spain	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1436910	Finland	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
EP1524874	Finland	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
EP1827050	Finland	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2202905	Finland	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1436910	France	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
EP1524874	France	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
EP1827050	France	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2202905	France	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1436910	Great Britain	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
EP1524874	Great Britain	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
EP1827050	Great Britain	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2202905	Great Britain	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1827050	Greece	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2202905	Greece	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
HK1067466	Hong Kong	Granted	Method and apparatus for controlling transmit power of a supplemental channel in a reverse link	ATIS.3GPP.25.321V8170-2014

HK1077446	Hong Kong	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
07111753.7	Hong Kong	Pending	Method and Apparatus for Controlling Transmit Power of a Supplemental Channel in a Reverse Link	ATIS.3GPP.25.321V8170-2014
HK1106348	Hong Kong	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
ID0019068	Indonesia	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
IDP0029691	Indonesia	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1827050	Ireland	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2202905	Ireland	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
157370	Israel	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
193787	Israel	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
235313	India	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1436910	Italy	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
EP1524874	Italy	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
EP1827050	Italy	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2202905	Italy	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
4040976	Japan	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
4805876	Japan	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
5080666	Japan	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
10-0884510	Republic of Korea	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
10-0926917	Republic of Korea	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
242522	Mexico	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
261461	Mexico	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1524874	Netherlands	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
EP1827050	Netherlands	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2202905	Netherlands	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
334924	Norway	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
EP1827050	Portugal	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2202905	Portugal	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
2307479	Russian Federation	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
2419206	Russian Federation	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
2424614	Russian Federation	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
2433542	Russian Federation	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
EP1436910	Sweden	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
EP1524874	Sweden	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
EP1827050	Sweden	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2202905	Sweden	Granted	Reverse link channel architecture for a wireless communication system	ATIS.3GPP.25.321V8170-2014
100099	Singapore	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014
182847	Taiwan	Granted	Reverse Link Channel Architecture for a Wireless Communication System	ATIS.3GPP.25.321V8170-2014

74413	Ukraine	Granted	Architecture of a reverse channel and a method for transmitting data over the reverse channel of a wireless communication system (variants); a method for controlling the signal transmission power in the reverse channel of the system; a remote terminal of the system	ATIS.3GPP.25.321V8170-2014
6,662,024	United States	Granted	Method and Apparatus for Allocating Downlink Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.25.308V8111-2014
PI0209636-6	Brazil	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.25.308V8111-2014
7,248,879	United States	Granted	Method and Apparatus for Allocating Downlink Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.25.308V8111-2014
7,907,972	United States	Granted	Method and apparatus for allocating downlink resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.25.308V8111-2014
8,489,107	United States	Granted	Method and apparatus for allocating downlink resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.25.308V8111-2014
2446877	Canada	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.25.308V8111-2014
ZL02813159.2	China P.R.	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.25.308V8111-2014
EP1388231	Germany	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.25.308V8111-2014
EP1830509	Germany	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.25.308V8111-2014
EP1388231	European Patent Convention	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.25.308V8111-2014
EP1830509	European Patent Convention	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.25.308V8111-2014
EP1388231	Spain	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.25.308V8111-2014
EP1830509	Spain	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.25.308V8111-2014
EP1388231	France	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.25.308V8111-2014
EP1830509	France	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.25.308V8111-2014
EP1388231	Great Britain	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.25.308V8111-2014
EP1830509	Great Britain	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.25.308V8111-2014
ID0019421	Indonesia	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.25.308V8111-2014
230228	India	Granted	A method for scheduling downlink data transmission and scheduling data transmission in a wireless communication system	ATIS.3GPP.25.308V8111-2014
EP1830509	Italy	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.25.308V8111-2014

4537004	Japan	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.25.308V8111-2014
10-0938302	Republic of Korea	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.25.308V8111-2014
240059	Mexico	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.25.308V8111-2014
EP1830509	Netherlands	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.25.308V8111-2014
2294599	Russian Federation	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.25.308V8111-2014
182607	Taiwan	Granted	Method and apparatus for allocating downlink resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.25.308V8111-2014
74882	Ukraine	Granted	Method for Scheduling Downlink Data Transmission to Plurality of Terminals in Wireless Communication System, Multiple-Input	ATIS.3GPP.25.308V8111-2014
7,542,482	United States	Granted	Method and apparatus for message segmentation in a wireless communication system	ATIS.3GPP.25.321V8170-2014
7,103,021	United States	Granted	Method and Apparatus for Communications of Data Rate Control Information in a CDMA Communication System	ATIS.3GPP.25.331V8250-2016
PI0212765-2	Brazil	Pending	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	ATIS.3GPP.25.331V8250-2016
7,924,781	United States	Granted	Method and apparatus for communications of data rate control information in a communication system	ATIS.3GPP.25.331V8250-2016
8,879,481	United States	Granted	Method and apparatus for communications of data rate control information in a communication system	ATIS.3GPP.25.331V8250-2016
ZL02822102.8	China P.R.	Granted	Method and apparatus for communicating data rate control information	ATIS.3GPP.25.331V8250-2016
ZL201210362837.1	China P.R.	Granted	Method and apparatus for communicating data rate control information	ATIS.3GPP.25.331V8250-2016
EP1430621	Germany	Granted	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	ATIS.3GPP.25.331V8250-2016
EP1430621	European Patent Convention	Granted	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	ATIS.3GPP.25.331V8250-2016
EP1430621	France	Granted	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	ATIS.3GPP.25.331V8250-2016
EP1430621	Great Britain	Granted	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	ATIS.3GPP.25.331V8250-2016
4236579	Japan	Granted	Ceasing transmission of data rate control information in a CDMA communication system when the mobile station transmits to the idle open state	ATIS.3GPP.25.331V8250-2016

10-0971349	Republic of Korea	Granted	Ceasing transmission of data rate control information in a CDMA communication system when the mobile station transmits to the idle open state	ATIS.3GPP.25.331V8250-2016
196071	Taiwan	Granted	Method and Apparatus for Communications of Data Rate Control Information in a CDMA Communication System	ATIS.3GPP.25.331V8250-2016
7,877,100	United States	Granted	Position determination system that uses a cellular communication system	ATIS.3GPP.25.331V8250-2016
ZL02828118.7	China P.R.	Granted	Position determination system that uses a cellular communication system	ATIS.3GPP.25.331V8250-2016
ZL200810109497.5	China P.R.	Granted	Position determination system that uses a cellular communication system	ATIS.3GPP.25.331V8250-2016
EP1454161	Germany	Granted	Position Determination System That Uses A Cellular Communication System	ATIS.3GPP.25.331V8250-2016
EP1454161	European Patent Convention	Granted	Position Determination System That Uses A Cellular Communication System	ATIS.3GPP.25.331V8250-2016
EP1454161	France	Granted	Position Determination System That Uses A Cellular Communication System	ATIS.3GPP.25.331V8250-2016
EP1454161	Great Britain	Granted	Position Determination System That Uses A Cellular Communication System	ATIS.3GPP.25.331V8250-2016
4226477	Japan	Granted	Position determination system that uses a cellular communication system	ATIS.3GPP.25.331V8250-2016
7,877,100	United States	Granted	Position determination system that uses a cellular communication system	ATIS.3GPP.25.413V880-2012
ZL02828118.7	China P.R.	Granted	Position determination system that uses a cellular communication system	ATIS.3GPP.25.413V880-2012
ZL200810109497.5	China P.R.	Granted	Position determination system that uses a cellular communication system	ATIS.3GPP.25.413V880-2012
EP1454161	Germany	Granted	Position Determination System That Uses A Cellular Communication System	ATIS.3GPP.25.413V880-2012
EP1454161	European Patent Convention	Granted	Position Determination System That Uses A Cellular Communication System	ATIS.3GPP.25.413V880-2012
EP1454161	France	Granted	Position Determination System That Uses A Cellular Communication System	ATIS.3GPP.25.413V880-2012
EP1454161	Great Britain	Granted	Position Determination System That Uses A Cellular Communication System	ATIS.3GPP.25.413V880-2012
4226477	Japan	Granted	Position determination system that uses a cellular communication system	ATIS.3GPP.25.413V880-2012
7,877,100	United States	Granted	Position determination system that uses a cellular communication system	ATIS.3GPP.25.430V800-2009
ZL02828118.7	China P.R.	Granted	Position determination system that uses a cellular communication system	ATIS.3GPP.25.430V800-2009
ZL200810109497.5	China P.R.	Granted	Position determination system that uses a cellular communication system	ATIS.3GPP.25.430V800-2009
EP1454161	Germany	Granted	Position Determination System That Uses A Cellular Communication System	ATIS.3GPP.25.430V800-2009
EP1454161	European Patent Convention	Granted	Position Determination System That Uses A Cellular Communication System	ATIS.3GPP.25.430V800-2009
EP1454161	France	Granted	Position Determination System That Uses A Cellular Communication System	ATIS.3GPP.25.430V800-2009
EP1454161	Great Britain	Granted	Position Determination System That Uses A Cellular Communication System	ATIS.3GPP.25.430V800-2009
4226477	Japan	Granted	Position determination system that uses a cellular communication system	ATIS.3GPP.25.430V800-2009
7,877,100	United States	Granted	Position determination system that uses a cellular communication system	ATIS.3GPP.25.453V830-2016
ZL02828118.7	China P.R.	Granted	Position determination system that uses a cellular communication system	ATIS.3GPP.25.453V830-2016
ZL200810109497.5	China P.R.	Granted	Position determination system that uses a cellular communication system	ATIS.3GPP.25.453V830-2016
EP1454161	Germany	Granted	Position Determination System That Uses A Cellular Communication System	ATIS.3GPP.25.453V830-2016
EP1454161	European Patent Convention	Granted	Position Determination System That Uses A Cellular Communication System	ATIS.3GPP.25.453V830-2016
EP1454161	France	Granted	Position Determination System That Uses A Cellular Communication System	ATIS.3GPP.25.453V830-2016
EP1454161	Great Britain	Granted	Position Determination System That Uses A Cellular Communication System	ATIS.3GPP.25.453V830-2016
4226477	Japan	Granted	Position determination system that uses a cellular communication system	ATIS.3GPP.25.453V830-2016
6,775,242	United States	Granted	Method and Apparatus for Time-Aligning Transmissions from Multiple Base Stations in a CDMA Communication System	ATIS.3GPP.25.331V8250-2016
2002354613	Australia	Granted	Method and apparatus for time-aligning transmissions from multiple base stations in a CDMA communication system	ATIS.3GPP.25.331V8250-2016

2008212670	Australia	Granted	Method and apparatus for time-aligning transmissions from multiple base stations in a CDMA communication system	ATIS.3GPP.25.331V8250-2016
EP1407562	Belgium	Granted	Method and Apparatus for Time-Aligning Transmissions from Multiple Base Stations in a CDMA Communication System	ATIS.3GPP.25.331V8250-2016
PI0210944-1	Brazil	Pending	Method and Apparatus for Time-Aligning Transmissions from Multiple Base Stations in a CDMA Communication System	ATIS.3GPP.25.331V8250-2016
2453319	Canada	Granted	Method and Apparatus for Time-Aligning Transmissions from Multiple Base Stations in a CDMA Communication System	ATIS.3GPP.25.331V8250-2016
ZL02817537.9	China P.R.	Granted	Method and apparatus for determining time differences between multiple base stations in a CDMA communication system	ATIS.3GPP.25.331V8250-2016
EP1407562	Germany	Granted	Method and Apparatus for Time-Aligning Transmissions from Multiple Base Stations in a CDMA Communication System	ATIS.3GPP.25.331V8250-2016
EP1407562	European Patent Convention	Granted	Method and apparatus for time-aligning transmissions from multiple base stations in a CDMA communication system	ATIS.3GPP.25.331V8250-2016
07017457.8	European Patent Convention	Pending	Method and apparatus for time-aligning transmissions from multiple base stations in a CDMA communication system	ATIS.3GPP.25.331V8250-2016
EP1407562	Spain	Granted	Method and Apparatus for Time-Aligning Transmissions from Multiple Base Stations in a CDMA Communication System	ATIS.3GPP.25.331V8250-2016
EP1407562	Finland	Granted	Method and Apparatus for Time-Aligning Transmissions from Multiple Base Stations in a CDMA Communication System	ATIS.3GPP.25.331V8250-2016
EP1407562	France	Granted	Method and Apparatus for Time-Aligning Transmissions from Multiple Base Stations in a CDMA Communication System	ATIS.3GPP.25.331V8250-2016
EP1407562	Great Britain	Granted	Method and Apparatus for Time-Aligning Transmissions from Multiple Base Stations in a CDMA Communication System	ATIS.3GPP.25.331V8250-2016
HK1070191	Hong Kong	Granted	Method and apparatus for detemrining time difference between multiple base stations in a CDMA communicaiton system	ATIS.3GPP.25.331V8250-2016
ID0018149	Indonesia	Granted	Method and Apparatus for Time-Aligning Transmissions from Multiple Base Stations in a CDMA Communication System	ATIS.3GPP.25.331V8250-2016
EP1407562	Ireland	Granted	Method and Apparatus for Time-Aligning Transmissions from Multiple Base Stations in a CDMA Communication System	ATIS.3GPP.25.331V8250-2016
227457	India	Granted	A method for determining differences in timing between a plurality of base stations in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP1407562	Italy	Granted	Method and Apparatus for Time-Aligning Transmissions from Multiple Base Stations in a CDMA Communication System	ATIS.3GPP.25.331V8250-2016
4546081	Japan	Granted	Method and apparatus for time-aligning transmissions from multiple base stations in a CDMA communication System	ATIS.3GPP.25.331V8250-2016
10-0945699	Republic of Korea	Granted	Method and apparatus for time-aligning transmissions from multiple base stations in a CDMA communication system	ATIS.3GPP.25.331V8250-2016
10-0980227	Republic of Korea	Granted	Method and apparatus for time-aligning transmissions from multiple base stations in a CDMA communication system	ATIS.3GPP.25.331V8250-2016
244389	Mexico	Granted	Method and Apparatus for Time-Aligning Transmissions from Multiple Base Stations in a CDMA Communication System	ATIS.3GPP.25.331V8250-2016
280812	Mexico	Granted	Method and apparatus for time-aligning transmissions from multiple base stations in a CDMA communication system	ATIS.3GPP.25.331V8250-2016

EP1407562	Netherlands	Granted	Method and Apparatus for Time-Aligning Transmissions from Multiple Base Stations in a CDMA Communication System	ATIS.3GPP.25.331V8250-2016
EP1407562	Sweden	Granted	Method and Apparatus for Time-Aligning Transmissions from Multiple Base Stations in a CDMA Communication System	ATIS.3GPP.25.331V8250-2016
101800	Singapore	Granted	Method and Apparatus for Time-Aligning Transmissions from Multiple Base Stations in a CDMA Communication System	ATIS.3GPP.25.331V8250-2016
I237460	Taiwan	Granted	Method and Apparatus for Time-Aligning Transmissions from Multiple Base Stations in a CDMA Communication System	ATIS.3GPP.25.331V8250-2016
7,433,321	United States	Granted	Method and apparatus for time-aligning transmissions from multiple base stations in a CDMA communication system	ATIS.3GPP.25.305V810-2009
7,903,633	United States	Granted	Method and apparatus for time-aligning transmissions from multiple base stations in a cdma communication system	ATIS.3GPP.25.305V810-2009
8,477,742	United States	Granted	Method and apparatus for time-aligning transmissions from multiple base stations in a CDMA communication system	ATIS.3GPP.25.305V810-2009
7,796,549	United States	Granted	Method and apparatus for time-aligning transmissions from multiple base stations in a CDMA communication system	ATIS.3GPP.25.305V810-2009
7,433,321	United States	Granted	Method and apparatus for time-aligning transmissions from multiple base stations in a CDMA communication system	ATIS.3GPP.25.331V8250-2016
7,903,633	United States	Granted	Method and apparatus for time-aligning transmissions from multiple base stations in a cdma communication system	ATIS.3GPP.25.331V8250-2016
8,477,742	United States	Granted	Method and apparatus for time-aligning transmissions from multiple base stations in a CDMA communication system	ATIS.3GPP.25.331V8250-2016
7,796,549	United States	Granted	Method and apparatus for time-aligning transmissions from multiple base stations in a CDMA communication system	ATIS.3GPP.25.331V8250-2016
6,909,702	United States	Granted	Method and Apparatus for Out-of-Band Transmission of Broadcast Service Option in a Wireless Communication System	ATIS.3GPP.25.346V840-2010
PI0208735-9	Brazil	Granted	Method and Apparatus for Out-of-Band Transmission of Broadcast Service Option in a Wireless Communication System	ATIS.3GPP.25.346V840-2010
2442650	Canada	Granted	Method and Apparatus for Out-of-Band Transmission of Broadcast Service Option in a Wireless Communication System	ATIS.3GPP.25.346V840-2010
ZL02809331.3	China P.R.	Granted	Method and apparatus for out-of-band transmission of broadcast service option in a wireless communication system	ATIS.3GPP.25.346V840-2010
EP1374506	Germany	Granted	Method and Apparatus for Out-of-Band Transmission of Broadcast Service Option in a Wireless Communication System	ATIS.3GPP.25.346V840-2010
EP1374506	European Patent Convention	Granted	Method and Apparatus for Out-of-Band Transmission of Broadcast Service Option in a Wireless Communication System	ATIS.3GPP.25.346V840-2010
EP1374506	France	Granted	Method and Apparatus for Out-of-Band Transmission of Broadcast Service Option in a Wireless Communication System	ATIS.3GPP.25.346V840-2010
EP1374506	Great Britain	Granted	Method and Apparatus for Out-of-Band Transmission of Broadcast Service Option in a Wireless Communication System	ATIS.3GPP.25.346V840-2010
4615828	Japan	Granted	Method and apparatus for out-of-band transmission of broadcast service option in a wireless communication system	ATIS.3GPP.25.346V840-2010
10-0891882	Republic of Korea	Granted	Method and apparatus for out-of-band transmission of broadcast service option in a wireless communication system	ATIS.3GPP.25.346V840-2010

239444	Mexico	Granted	Method and Apparatus for Out-of-Band Transmission of Broadcast Service Option in a Wireless Communication System	ATIS.3GPP.25.346V840-2010
196721	Taiwan	Granted	Method and Apparatus for Out-of-Band Transmission of Broadcast Service Option in a Wireless Communication System	ATIS.3GPP.25.346V840-2010
8,077,679	United States	Granted	Method and apparatus for providing protocol options in a wireless communication system	ATIS.3GPP.36.300V8120-2010
PI0208433-3	Brazil	Pending	Method and Apparatus for Providing Protocol Options in a Wireless Communication System	ATIS.3GPP.36.300V8120-2010
02721626.6	European Patent Convention	Pending	Method and Apparatus for Providing Protocol Options in a Wireless Communication System	ATIS.3GPP.36.300V8120-2010
7,349,425	United States	Granted	Method and Apparatus for Overhead Messaging in a Wireless Communication System	ATIS.3GPP.25.346V840-2010
PI0208497-0	Brazil	Pending	Method and Apparatus for Overhead Messaging in a Wireless Communication System	ATIS.3GPP.25.346V840-2010
02810683.0	China P.R.	Pending	Method and Apparatus for Broadcast Services in a Wireless Communication System	ATIS.3GPP.25.346V840-2010
EP1374483	Germany	Granted	Method and Apparatus for Broadcast Services in a Wireless Communication System	ATIS.3GPP.25.346V840-2010
EP1374483	European Patent Convention	Granted	Method and Apparatus for Broadcast Services in a Wireless Communication System	ATIS.3GPP.25.346V840-2010
EP1374483	Great Britain	Granted	Method and Apparatus for Broadcast Services in a Wireless Communication System	ATIS.3GPP.25.346V840-2010
ID0024776	Indonesia	Granted	Method and apparatus for data rate control in soft handoff and during cell-switching	ATIS.3GPP.25.346V840-2010
01542/CHENP/2003	India	Pending	Method and apparatus for broadcast services in a wireless communication system	ATIS.3GPP.25.346V840-2010
4773042	Japan	Granted	Method and apparatus for overhead messaging in a wireless communication system	ATIS.3GPP.25.346V840-2010
5524125	Japan	Granted	Method and apparatus for overhead messaging in a wireless communication system	ATIS.3GPP.25.346V840-2010
10-0913339	Republic of Korea	Granted	Method and apparatus for broadcast services in a wireless communication system	ATIS.3GPP.25.346V840-2010
258455	Mexico	Granted	Method and apparatus for overhead messaging in a wireless communication system	ATIS.3GPP.25.346V840-2010
2300846	Russian Federation	Granted	Method and Apparatus for Broadcast Services in a Wireless Communication System	ATIS.3GPP.25.346V840-2010
2345494	Russian Federation	Granted	Method and apparatus for overhead messaging in a wireless communication system	ATIS.3GPP.25.346V840-2010
I248736	Taiwan	Granted	Method and Apparatus for Overhead Messaging in a Wireless Communication System	ATIS.3GPP.25.346V840-2010
78507	Ukraine	Granted	Method and Apparatus for Broadcast Services in a Wireless Communication System	ATIS.3GPP.25.346V840-2010
7,263,351	United States	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.25.331V8250-2016
AR040362B1	Argentina	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.25.331V8250-2016

2003248807	Australia	Pending	Wireless network optimization through remote device data	ATIS.3GPP.25.331V8250-2016
PI0312353-7	Brazil	Pending	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.25.331V8250-2016
ZL03815520.6	China P.R.	Granted	Wireless network optimization through remote device data	ATIS.3GPP.25.331V8250-2016
EP1518425	Germany	Granted	Wireless network optimization through remote device data	ATIS.3GPP.25.331V8250-2016
EP1518425	European Patent Convention	Granted	Wireless network optimization through remote device data	ATIS.3GPP.25.331V8250-2016
EP1518425	Great Britain	Granted	Wireless network optimization through remote device data	ATIS.3GPP.25.331V8250-2016
ID0019120	Indonesia	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.25.331V8250-2016
255878	India	Granted	A method of configuring a wireless network and an apparatus for optimizing a wireless network	ATIS.3GPP.25.331V8250-2016
5027203	Japan	Granted	Wireless network optimization through remote device data	ATIS.3GPP.25.331V8250-2016
10-0993750	Republic of Korea	Granted	Wireless network optimization through remote device data	ATIS.3GPP.25.331V8250-2016
10-1075039	Republic of Korea	Granted	Wireless network optimization through remote device data	ATIS.3GPP.25.331V8250-2016
253430	Mexico	Granted	Wireless network optimization through remote device data	ATIS.3GPP.25.331V8250-2016
4782	Peru	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.25.331V8250-2016
2332812	Russian Federation	Granted	Wireless network optimization through remote device data	ATIS.3GPP.25.331V8250-2016
2003-001111	Venezuela	Pending	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.25.331V8250-2016
6740	Vietnam	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.25.331V8250-2016
8,121,296	United States	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.25.346V840-2010
PI0208498-8	Brazil	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.25.346V840-2010
2442656	Canada	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.25.346V840-2010
ZL201010161047.8	China P.R.	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.25.346V840-2010
HK1149673	Hong Kong	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.25.346V840-2010
02715236.2	European Patent Convention	Pending	Method and apparatus for security in a data processing system	ATIS.3GPP.25.346V840-2010
11152761.0	European Patent Convention	Pending	Method and apparatus for security in a data processing system	ATIS.3GPP.25.346V840-2010
4282992	Japan	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.25.346V840-2010
10-0886592	Republic of Korea	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.25.346V840-2010
247070	Mexico	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.25.346V840-2010
185874	Taiwan	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.25.346V840-2010
8,121,296	United States	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.36.300V8120-2010
PI0208498-8	Brazil	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.36.300V8120-2010
2442656	Canada	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.36.300V8120-2010
ZL201010161047.8	China P.R.	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.36.300V8120-2010
HK1149673	Hong Kong	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.36.300V8120-2010
02715236.2	European Patent Convention	Pending	Method and apparatus for security in a data processing system	ATIS.3GPP.36.300V8120-2010
11152761.0	European Patent Convention	Pending	Method and apparatus for security in a data processing system	ATIS.3GPP.36.300V8120-2010
4282992	Japan	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.36.300V8120-2010
10-0886592	Republic of Korea	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.36.300V8120-2010
247070	Mexico	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.36.300V8120-2010
185874	Taiwan	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.36.300V8120-2010
7,185,362	United States	Granted	Method and Apparatus for Security in a Data Processing System	ATIS.3GPP.25.346V840-2010

PI0313783-0	Brazil	Granted	Method and Apparatus for Secure Data Transmission in a Mobile Communication System	ATIS.3GPP.25.346V840-2010
2496677	Canada	Granted	Method and Apparatus for Secure Data Transmission in a Mobile Communication System	ATIS.3GPP.25.346V840-2010
ZL03824328.8	China P.R.	Granted	Method and apparatus for secure data transmission in a mobile communication system	ATIS.3GPP.25.346V840-2010
ZL200710146509.7	China P.R.	Granted	Method and apparatus for secure data transmission in a mobile communication system	ATIS.3GPP.25.346V840-2010
10012072.4	European Patent Convention	Pending	Method and apparatus for security in a data processing system	ATIS.3GPP.25.346V840-2010
HK1084201	Hong Kong	Granted	Method and apparatus for secure data transmission in a mobile communication system	ATIS.3GPP.25.346V840-2010
226402	India	Granted	Method and apparatus for secure data transmission in a mobile communication system	ATIS.3GPP.25.346V840-2010
827/CHENP/2007	India	Pending	Method and Apparatus for Secure Data Transmission in a Mobile Communication System	ATIS.3GPP.25.346V840-2010
4927330	Japan	Granted	Method and apparatus for secure data transmission in a mobile communication system	ATIS.3GPP.25.346V840-2010
5307220	Japan	Granted	Method and apparatus for secure data transmission in a mobile communication system	ATIS.3GPP.25.346V840-2010
10-1123591	Republic of Korea	Granted	Method and apparatus for security data transmission in a mobile communication system	ATIS.3GPP.25.346V840-2010
254154	Mexico	Granted	Method and apparatus for secure data transmission in a mobile communication system	ATIS.3GPP.25.346V840-2010
290964	Mexico	Granted	Method and apparatus for secure data transmission in a mobile communication system	ATIS.3GPP.25.346V840-2010
I280768	Taiwan	Granted	Method and Apparatus for Security in a Data Processing System	ATIS.3GPP.25.346V840-2010
7,185,362	United States	Granted	Method and Apparatus for Security in a Data Processing System	ATIS.3GPP.36.300V8120-2010
PI0313783-0	Brazil	Granted	Method and Apparatus for Secure Data Transmission in a Mobile Communication System	ATIS.3GPP.36.300V8120-2010
2496677	Canada	Granted	Method and Apparatus for Secure Data Transmission in a Mobile Communication System	ATIS.3GPP.36.300V8120-2010
ZL03824328.8	China P.R.	Granted	Method and apparatus for secure data transmission in a mobile communication system	ATIS.3GPP.36.300V8120-2010
ZL200710146509.7	China P.R.	Granted	Method and apparatus for secure data transmission in a mobile communication system	ATIS.3GPP.36.300V8120-2010
10012072.4	European Patent Convention	Pending	Method and apparatus for security in a data processing system	ATIS.3GPP.36.300V8120-2010
HK1084201	Hong Kong	Granted	Method and apparatus for secure data transmission in a mobile communication system	ATIS.3GPP.36.300V8120-2010
226402	India	Granted	Method and apparatus for secure data transmission in a mobile communication system	ATIS.3GPP.36.300V8120-2010
827/CHENP/2007	India	Pending	Method and Apparatus for Secure Data Transmission in a Mobile Communication System	ATIS.3GPP.36.300V8120-2010
4927330	Japan	Granted	Method and apparatus for secure data transmission in a mobile communication system	ATIS.3GPP.36.300V8120-2010

5307220	Japan	Granted	Method and apparatus for secure data transmission in a mobile communication system	ATIS.3GPP.36.300V8120-2010
10-1123591	Republic of Korea	Granted	Method and apparatus for security data transmission in a mobile communication system	ATIS.3GPP.36.300V8120-2010
254154	Mexico	Granted	Method and apparatus for secure data transmission in a mobile communication system	ATIS.3GPP.36.300V8120-2010
290964	Mexico	Granted	Method and apparatus for secure data transmission in a mobile communication system	ATIS.3GPP.36.300V8120-2010
I280768	Taiwan	Granted	Method and Apparatus for Security in a Data Processing System	ATIS.3GPP.36.300V8120-2010
9,100,457	United States	Granted	Method and apparatus for transmission framing in a wireless communication system	ATIS.3GPP.36.300V8120-2010
PI0208431-7	Brazil	Pending	Method and Apparatus for Transmission Framing in a Wireless Communication System	ATIS.3GPP.36.300V8120-2010
2442378	Canada	Granted	Method and Apparatus for Transmission Framing in a Wireless Communication System	ATIS.3GPP.36.300V8120-2010
ZL02810038.7	China P.R.	Granted	Method and apparatus for transmission framing in a wireless communication system	ATIS.3GPP.36.300V8120-2010
ZL200710085839.X	China P.R.	Granted	Method and Apparatus for Transmission Framing in a Wireless Communication System	ATIS.3GPP.36.300V8120-2010
ZL201010157121.9	China P.R.	Granted	Method and apparatus for transmission framing in a wireless communication system	ATIS.3GPP.36.300V8120-2010
10158699.8	European Patent Convention	Pending	Method and apparatus for transmission framing in a wireless communication system	ATIS.3GPP.36.300V8120-2010
5738932	Japan	Granted	Method and apparatus for transmission framing in a wireless communication system	ATIS.3GPP.36.300V8120-2010
10-0894232	Republic of Korea	Granted	Method and apparatus for transmission framing in a wireless communication system	ATIS.3GPP.36.300V8120-2010
264646	Mexico	Granted	Method and Apparatus for Transmission Framing in a Wireless Communication System	ATIS.3GPP.36.300V8120-2010
202790	Taiwan	Granted	Method and Apparatus for Transmission Framing in a Wireless Communication System	ATIS.3GPP.36.300V8120-2010
6,707,801	United States	Granted	Method and Apparatus for Data Transport in a Wireless Communication System	ATIS.3GPP.36.300V8120-2010
PI0208496-1	Brazil	Pending	Method and Apparatus for Data Transport in a Wireless Communication System	ATIS.3GPP.36.300V8120-2010
2442622	Canada	Granted	Method and Apparatus for Data Transport in a Wireless Communication System	ATIS.3GPP.36.300V8120-2010
ZL02809330.5	China P.R.	Granted	Method and apparatus for data transport in a wireless communication system	ATIS.3GPP.36.300V8120-2010
EP1382177	Germany	Granted	Method and apparatus for data transport in a wireless communication system	ATIS.3GPP.36.300V8120-2010
EP1382177	European Patent Convention	Granted	Method and apparatus for data transport in a wireless communication system	ATIS.3GPP.36.300V8120-2010
EP1382177	Great Britain	Granted	Method and apparatus for data transport in a wireless communication system	ATIS.3GPP.36.300V8120-2010
10-0940139	Republic of Korea	Granted	Method and apparatus for data transport in a wireless communication system	ATIS.3GPP.36.300V8120-2010
239445	Mexico	Granted	Method and Apparatus for Data Transport in a Wireless Communication System	ATIS.3GPP.36.300V8120-2010
193809	Taiwan	Granted	Method and Apparatus for Data Transport in a Wireless Communication System	ATIS.3GPP.36.300V8120-2010
7,031,666	United States	Granted	Method and Apparatus for Header Compression in a Wireless Communication System	ATIS.3GPP.36.300V8120-2010

PI0208430-9	Brazil	Pending	Method and Apparatus for Header Compression in a Wireless Communication System	ATIS.3GPP.36.300V8120-2010
2442383	Canada	Granted	Method and Apparatus for Header Compression in a Wireless Communication System	ATIS.3GPP.36.300V8120-2010
ZL02810037.9	China P.R.	Granted	Method and apparatus for header compression in a wireless communication system	ATIS.3GPP.36.300V8120-2010
ZL201010194903.X	China P.R.	Granted	Method and apparatus for header compression in a wireless communication system	ATIS.3GPP.36.300V8120-2010
EP1382178	Germany	Granted	Method and apparatus for header compression in a wireless communication system	ATIS.3GPP.36.300V8120-2010
EP1382178	European Patent Convention	Granted	Method and apparatus for header compression in a wireless communication system	ATIS.3GPP.36.300V8120-2010
EP1382178	Spain	Granted	Method and apparatus for header compression in a wireless communication system	ATIS.3GPP.36.300V8120-2010
EP1382178	Finland	Granted	Method and apparatus for header compression in a wireless communication system	ATIS.3GPP.36.300V8120-2010
EP1382178	France	Granted	Method and apparatus for header compression in a wireless communication system	ATIS.3GPP.36.300V8120-2010
EP1382178	Great Britain	Granted	Method and apparatus for header compression in a wireless communication system	ATIS.3GPP.36.300V8120-2010
EP1382178	Italy	Granted	Method and apparatus for header compression in a wireless communication system	ATIS.3GPP.36.300V8120-2010
4270874	Japan	Granted	Method and apparatus for header compression in a wireless communication system	ATIS.3GPP.36.300V8120-2010
10-0953845	Republic of Korea	Granted	Method and apparatus for header compression in a wireless communication system	ATIS.3GPP.36.300V8120-2010
241714	Mexico	Granted	Method and Apparatus for Header Compression in a Wireless Communication System	ATIS.3GPP.36.300V8120-2010
EP1382178	Netherlands	Granted	Method and apparatus for header compression in a wireless communication system	ATIS.3GPP.36.300V8120-2010
EP1382178	Sweden	Granted	Method and apparatus for header compression in a wireless communication system	ATIS.3GPP.36.300V8120-2010
193102	Taiwan	Granted	Method and Apparatus for Header Compression in a Wireless Communication System	ATIS.3GPP.36.300V8120-2010
6,980,820	United States	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.44.060V8170-2014
7,415,283	United States	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.44.060V8170-2014
ZL02820728.9	China P.R.	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.44.060V8170-2014
ZL200610172826.1	China P.R.	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.44.060V8170-2014
ZL200610172827.6	China P.R.	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.44.060V8170-2014
7,689,226	United States	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.44.060V8170-2014
EP1421803	Germany	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.44.060V8170-2014
EP1566928	Germany	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.44.060V8170-2014
EP1608187	Germany	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.44.060V8170-2014

EP1421803	European Patent Convention	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.44.060V8170-2014
EP1566928	European Patent Convention	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.44.060V8170-2014
EP1608187	European Patent Convention	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.44.060V8170-2014
EP1421803	Spain	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.44.060V8170-2014
EP1566928	Spain	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.44.060V8170-2014
EP1608187	Spain	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.44.060V8170-2014
EP1421803	France	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.44.060V8170-2014
EP1566928	France	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.44.060V8170-2014
EP1608187	France	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.44.060V8170-2014
EP1421803	Great Britain	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.44.060V8170-2014
EP1566928	Great Britain	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.44.060V8170-2014
EP1608187	Great Britain	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.44.060V8170-2014
241313	India	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.44.060V8170-2014
EP1421803	Italy	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.44.060V8170-2014
EP1566928	Italy	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.44.060V8170-2014
EP1608187	Italy	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.44.060V8170-2014
4307998	Japan	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.44.060V8170-2014
4927893	Japan	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.44.060V8170-2014
4965593	Japan	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.44.060V8170-2014
5628217	Japan	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.44.060V8170-2014
10-0906587	Republic of Korea	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.44.060V8170-2014
189273	Taiwan	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.44.060V8170-2014
6,731,936	United States	Granted	Method and System for a Handoff in a Broadcast Communication System	ATIS.3GPP.25.304V8120-2012
7,254,394	United States	Granted	Method and System for a Handoff in a Broadcast Communication System	ATIS.3GPP.25.304V8120-2012
7,937,086	United States	Granted	Method and system for a handoff in a broadcast communication system	ATIS.3GPP.25.304V8120-2012
ZL02820800.5	China P.R.	Granted	Method for a Handoff in a Broadcast Communication System	ATIS.3GPP.25.304V8120-2012
ZL200610115585.7	China P.R.	Granted	Subscriber station apparatus for a handoff in a broadcast communication system	ATIS.3GPP.25.304V8120-2012
EP2375819	Germany	Granted	Method and system for a handoff in a broadcast communication system	ATIS.3GPP.25.304V8120-2012
EP2375819	European Patent Convention	Granted	Method and system for a handoff in a broadcast communication system	ATIS.3GPP.25.304V8120-2012
EP2375819	France	Granted	Method and system for a handoff in a broadcast communication system	ATIS.3GPP.25.304V8120-2012
EP2375819	Great Britain	Granted	Method and system for a handoff in a broadcast communication system	ATIS.3GPP.25.304V8120-2012
HK1070524	Hong Kong	Granted	Method and System for a Handoff in a Broadcast Communication System	ATIS.3GPP.25.304V8120-2012
237735	India	Granted	A method for handoff in a broadcast communication system	ATIS.3GPP.25.304V8120-2012
1887/CHENP/2009	India	Pending	Method and system for a handoff in a broadcast communication system	ATIS.3GPP.25.304V8120-2012
4833514	Japan	Granted	Method and system for a handoff in a broadcast communication system	ATIS.3GPP.25.304V8120-2012
4933515	Japan	Granted	Method and system for a handoff in a broadcast communication system	ATIS.3GPP.25.304V8120-2012
10-0909192	Republic of Korea	Granted	Method and system for a handoff in a broadcast communication system	ATIS.3GPP.25.304V8120-2012
10-0949933	Republic of Korea	Granted	Method and system for a handoff in a broadcast communication system	ATIS.3GPP.25.304V8120-2012
I228009	Taiwan	Granted	Method and System for a Handoff in a Broadcast Communication System	ATIS.3GPP.25.304V8120-2012

8,089,940	United States	Granted	Method and system for efficient and reliable data packet transmission	ATIS.3GPP.36.212V1230-2015
PI0213088-2	Brazil	Pending	Flexible ARQ for Packet Data Transmission	ATIS.3GPP.36.212V1230-2015
2462697	Canada	Granted	Method and system for efficient and reliable data packet transmission	ATIS.3GPP.36.212V1230-2015
ZL02824087.1	China P.R.	Granted	Flexible ARQ for Packet Data Transmission	ATIS.3GPP.36.212V1230-2015
200710007324.8	China P.R.	Pending	Flexible ARQ for Packet Data Transmission	ATIS.3GPP.36.212V1230-2015
EP1433281	Germany	Granted	Method and System for Efficient and Reliable Data Packet Transmission	ATIS.3GPP.36.212V1230-2015
EP1433281	European Patent Convention	Granted	Flexible Automatic retransmission request for packet data transmission	ATIS.3GPP.36.212V1230-2015
06124217.8	European Patent Convention	Pending	Flexible ARQ for packet data transmission	ATIS.3GPP.36.212V1230-2015
10176971.9	European Patent Convention	Pending	Flexible automatic retransmission request for packet data transmission	ATIS.3GPP.36.212V1230-2015
EP1433281	France	Granted	Flexible Automatic retransmission request for packet data transmission	ATIS.3GPP.36.212V1230-2015
EP1433281	Great Britain	Granted	Flexible Automatic retransmission request for packet data transmission	ATIS.3GPP.36.212V1230-2015
IDP0026198	Indonesia	Granted	Flexible ARQ for packet data transmission	ATIS.3GPP.36.212V1230-2015
679/CHENP/2004	India	Pending	Method and system for efficient and reliable data packet transmission	ATIS.3GPP.36.212V1230-2015
EP1433281	Italy	Granted	Flexible Automatic retransmission request for packet data transmission	ATIS.3GPP.36.212V1230-2015
4308003	Japan	Granted	Flexible ARQ for packet data transmission	ATIS.3GPP.36.212V1230-2015
4740285	Japan	Granted	Flexible ARQ for packet data transmission	ATIS.3GPP.36.212V1230-2015
10-0993143	Republic of Korea	Granted	Flexible ARQ for packet data transmission	ATIS.3GPP.36.212V1230-2015
249297	Mexico	Granted	Flexible ARQ for Packet Data Transmission	ATIS.3GPP.36.212V1230-2015
2300175	Russian Federation	Granted	Flexible ARQ for Packet Data Transmission	ATIS.3GPP.36.212V1230-2015
I239168	Taiwan	Granted	Method and System for Efficient and Reliable Data Packet Transmission	ATIS.3GPP.36.212V1230-2015
81231	Ukraine	Granted	Flexible ARQ for Packet Data Transmission	ATIS.3GPP.36.212V1230-2015
7,697,523	United States	Granted	Method and apparatus for data packet transport in a wireless communication system using an internet protocol	ATIS.3GPP.25.346V840-2010
PI0213087-4	Brazil	Pending	Method and Apparatus for Data Packet Transport in a Wireless Communications System using an Internet Protocol	ATIS.3GPP.25.346V840-2010
ZL200710007339.4	China P.R.	Granted	Method and apparatus for data packet transport in a wireless communications system using an internet protocol	ATIS.3GPP.25.346V840-2010
02773714.7	European Patent Convention	Pending	Method and Apparatus for Data Packet Transport in a Wireless Communications System using an Internet Protocol	ATIS.3GPP.25.346V840-2010
07019633.2	European Patent Convention	Pending	Method and apparatus for data packet transport in a wireless communications system using an internet protocol	ATIS.3GPP.25.346V840-2010
10173714.6	European Patent Convention	Pending	Method and apparatus for data packet transport in a wireless communication system using an internet protocol	ATIS.3GPP.25.346V840-2010
5107746	Japan	Granted	Method and apparatus for data packet transport in a wireless communications system using an internet protocol	ATIS.3GPP.25.346V840-2010
5677995	Japan	Granted	Method and apparatus for data packet transport in a wireless communication system using an internet protocol	ATIS.3GPP.25.346V840-2010
5788441	Japan	Granted	Method and apparatus for data packet transport in a wireless communications system using an internet protocol	ATIS.3GPP.25.346V840-2010
10-0956041	Republic of Korea	Granted	Method and apparatus for data packet transport in a wireless communications system using an internet protocol	ATIS.3GPP.25.346V840-2010

I223532	Taiwan	Granted	Method and Apparatus for Data Packet Transport in a Wireless Communications System using an Internet Protocol	ATIS.3GPP.25.346V840-2010
7,184,789	United States	Granted	METHOD AND APPARATUS FOR DATA PACKET TRANSPORT IN A WIRELESS COMMUNICATION SYSTEM USING AN INTERNET PROTOCOL	ATIS.3GPP.25.346V840-2010
EP1435150	Belgium	Granted	Method and Apparatus for Data Packet Transport in a Wireless Communications System using an Internet Protocol	ATIS.3GPP.25.346V840-2010
EP1435150	Bulgaria	Granted	Method and Apparatus for Data Packet Transport in a Wireless Communications System using an Internet Protocol	ATIS.3GPP.25.346V840-2010
PI0213872-7	Brazil	Pending	Method and Apparatus for Data Packet Transport in a Wireless Communications System using an Internet Protocol	ATIS.3GPP.25.346V840-2010
2462526	Canada	Granted	Method and apparatus for data packet transport in a wireless communications system using an internet protocol	ATIS.3GPP.25.346V840-2010
2738582	Canada	Granted	Method and apparatus for data packet transport in a wireless communication system using an internet protocol	ATIS.3GPP.25.346V840-2010
ZL02823364.6	China P.R.	Granted	Method and apparatus for data packet transport in a wireless communications system using an internet protocol	ATIS.3GPP.25.346V840-2010
ZL200910258541.3	China P.R.	Granted	Method and apparatus for data packet transport in a wireless communication system using an internet protocol	ATIS.3GPP.25.346V840-2010
EP1435150	Czech Republic	Granted	Method and Apparatus for Data Packet Transport in a Wireless Communications System using an Internet Protocol	ATIS.3GPP.25.346V840-2010
EP1435150	Germany	Granted	Method and Apparatus for Data Packet Transport in a Wireless Communications System using an Internet Protocol	ATIS.3GPP.25.346V840-2010
EP1435150	European Patent Convention	Granted	Method and Apparatus for Data Packet Transport in a Wireless Communications System using an Internet Protocol	ATIS.3GPP.25.346V840-2010
05005647.2	European Patent Convention	Pending	Method and Apparatus for Data Packet Transport in a Wireless Communications System using an Internet Protocol	ATIS.3GPP.25.346V840-2010
EP1435150	Spain	Granted	Method and Apparatus for Data Packet Transport in a Wireless Communications System using an Internet Protocol	ATIS.3GPP.25.346V840-2010
EP1435150	Finland	Granted	Method and Apparatus for Data Packet Transport in a Wireless Communications System using an Internet Protocol	ATIS.3GPP.25.346V840-2010
EP1435150	France	Granted	Method and Apparatus for Data Packet Transport in a Wireless Communications System using an Internet Protocol	ATIS.3GPP.25.346V840-2010
EP1435150	Great Britain	Granted	Method and Apparatus for Data Packet Transport in a Wireless Communications System using an Internet Protocol	ATIS.3GPP.25.346V840-2010
HK1073027	Hong Kong	Granted	Method and Apparatus for Data Packet Transport in a Wireless Communications System using an Internet Protocol	ATIS.3GPP.25.346V840-2010
EP1435150	Ireland	Granted	Method and Apparatus for Data Packet Transport in a Wireless Communications System using an Internet Protocol	ATIS.3GPP.25.346V840-2010
202855	Israel	Pending	Method and apparatus for data packet transport in a wireless communication system using an internet protocol	ATIS.3GPP.25.346V840-2010
240391	India	Granted	Method for data packet transport in a wireless communication system using an internet protocol	ATIS.3GPP.25.346V840-2010
EP1435150	Italy	Granted	Method and Apparatus for Data Packet Transport in a Wireless Communications System using an Internet Protocol	ATIS.3GPP.25.346V840-2010

5160912	Japan	Granted	Method and apparatus for data packet transport in a wireless communications system using an internet protocol	ATIS.3GPP.25.346V840-2010
5006275	Japan	Granted	Method and apparatus for data packet transport in a wireless communications system using an internet protocol	ATIS.3GPP.25.346V840-2010
5199491	Japan	Granted	Method and apparatus for data packet transport in a wireless communications system using an internet protocol	ATIS.3GPP.25.346V840-2010
5199492	Japan	Granted	Method and apparatus for data packet transport in a wireless communications system using an internet protocol	ATIS.3GPP.25.346V840-2010
10-0956040	Republic of Korea	Granted	Method and apparatus for data packet transport in a wireless communications system using an internet protocol	ATIS.3GPP.25.346V840-2010
10-1019400	Republic of Korea	Granted	Method and apparatus for data packet transport in a wireless communications system using an internet protocol	ATIS.3GPP.25.346V840-2010
251555	Mexico	Granted	Method and Apparatus for Data Packet Transport in a Wireless Communications System using an Internet Protocol	ATIS.3GPP.25.346V840-2010
EP1435150	Netherlands	Granted	Method and Apparatus for Data Packet Transport in a Wireless Communications System using an Internet Protocol	ATIS.3GPP.25.346V840-2010
2004113555	Russian Federation	Pending	Method and Apparatus for Data Packet Transport in a Wireless Communications System using an Internet Protocol	ATIS.3GPP.25.346V840-2010
EP1435150	Sweden	Granted	Method and Apparatus for Data Packet Transport in a Wireless Communications System using an Internet Protocol	ATIS.3GPP.25.346V840-2010
I268075	Taiwan	Granted	Method and Apparatus for Supporting Broadcast Transmissions, Group Call Transmissions and Multicast Call Transmissions in a Wireless Communication System	ATIS.3GPP.25.346V840-2010
20040403284	Ukraine	Pending	Method and Apparatus for Data Packet Transport in a Wireless Communications System using an Internet Protocol	ATIS.3GPP.25.346V840-2010
7,352,868	United States	Granted	Method and Apparatus for Security in a Data Processing System	ATIS.3GPP.25.346V840-2010
2002342014	Australia	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.25.346V840-2010
PI0213214-1	Brazil	Pending	Method and Apparatus for Security in a Data Processing System	ATIS.3GPP.25.346V840-2010
8,983,065	United States	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.25.346V840-2010
2463542	Canada	Granted	Method and Apparatus for Security in a Data Processing System	ATIS.3GPP.25.346V840-2010
ZL02823862.1	China P.R.	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.25.346V840-2010
ZL200910128921.5	China P.R.	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.25.346V840-2010
HK1137269	Hong Kong	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.25.346V840-2010
02776178.2	European Patent Convention	Pending	Method and Apparatus for Security in a Data Processing System	ATIS.3GPP.25.346V840-2010
10004389.2	European Patent Convention	Pending	Method and Apparatus for Security in a Data Processing System	ATIS.3GPP.25.346V840-2010
10004388.4	European Patent Convention	Pending	Method and Apparatus for Security in a Data Processing System	ATIS.3GPP.25.346V840-2010
HK1076553	Hong Kong	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.25.346V840-2010
ID0022422	Indonesia	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.25.346V840-2010
161312	Israel	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.25.346V840-2010
739/CHENP/2004	India	Pending	Method and Apparatus for Security in a Data Processing System	ATIS.3GPP.25.346V840-2010
4732687	Japan	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.25.346V840-2010
10-0967323	Republic of Korea	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.25.346V840-2010

257252	Mexico	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.25.346V840-2010
2333608	Russian Federation	Granted	Method and apparatus for security in a data processing system	ATIS.3GPP.25.346V840-2010
103676	Singapore	Granted	Method and Apparatus for Security in a Data Processing System	ATIS.3GPP.25.346V840-2010
I256223	Taiwan	Granted	Method and Apparatus for Security in a Data Processing System	ATIS.3GPP.25.346V840-2010
7,167,461	United States	Granted	METHOD AND APPARATUS FOR PROCESSING SHARED SUBPACKETS IN A COMMUNICATION SYSTEM	ATIS.3GPP.25.321V8170-2014
8,787,264	United States	Granted	Method and apparatus for processing shared sub-packets in a communication system	ATIS.3GPP.25.321V8170-2014
7,336,952	United States	Granted	Method and System for Hard Handoff in a Broadcast Communication System	ATIS.3GPP.25.346V840-2010
PI0213444-6	Brazil	Pending	Method and System for Hard Handoff in a Broadcast Communication System	ATIS.3GPP.25.346V840-2010
8,526,394	United States	Granted	Method and system for hard handoff in a broadcast communication system	ATIS.3GPP.25.346V840-2010
ZL02824493.1	China P.R.	Granted	Method and system for hard handoff in a broadcast communication system	ATIS.3GPP.25.346V840-2010
ZL200710087610.X	China P.R.	Granted	Method and system for hard handoff in a broadcast communication system	ATIS.3GPP.25.346V840-2010
ZL200910178752.6	China P.R.	Granted	Method and system for hard handoff in a broadcast communication system	ATIS.3GPP.25.346V840-2010
EP1446976	Germany	Granted	Method and system for hard handoff in a broadcast communication system	ATIS.3GPP.25.346V840-2010
EP2242290	Germany	Granted	Method and apparatus for hard handoff in a broadcast communication system	ATIS.3GPP.25.346V840-2010
EP1446976	European Patent Convention	Granted	Method and system for hard handoff in a broadcast communication system	ATIS.3GPP.25.346V840-2010
EP2242290	European Patent Convention	Granted	Method and apparatus for hard handoff in a broadcast communication system	ATIS.3GPP.25.346V840-2010
EP1446976	Spain	Granted	Method and system for hard handoff in a broadcast communication system	ATIS.3GPP.25.346V840-2010
EP2242290	Spain	Granted	Method and apparatus for hard handoff in a broadcast communication system	ATIS.3GPP.25.346V840-2010
EP1446976	France	Granted	Method and system for hard handoff in a broadcast communication system	ATIS.3GPP.25.346V840-2010
EP2242290	France	Granted	Method and apparatus for hard handoff in a broadcast communication system	ATIS.3GPP.25.346V840-2010
EP1446976	Great Britain	Granted	Method and system for hard handoff in a broadcast communication system	ATIS.3GPP.25.346V840-2010
EP2242290	Great Britain	Granted	Method and apparatus for hard handoff in a broadcast communication system	ATIS.3GPP.25.346V840-2010
EP1446976	Italy	Granted	Method and system for hard handoff in a broadcast communication system	ATIS.3GPP.25.346V840-2010
EP2242290	Italy	Granted	Method and apparatus for hard handoff in a broadcast communication system	ATIS.3GPP.25.346V840-2010
4363982	Japan	Granted	Method and system for hard handoff in a broadcast communication system	ATIS.3GPP.25.346V840-2010
5059804	Japan	Granted	Method and system for hard handoff in a broadcast communication system	ATIS.3GPP.25.346V840-2010
4908563	Japan	Granted	Method and system for hard handoff in a broadcast communication system	ATIS.3GPP.25.346V840-2010
5394524	Japan	Granted	Method and system for hard handoff in a broadcast communication system	ATIS.3GPP.25.346V840-2010
10-1037991	Republic of Korea	Granted	Method and system for hard handoff in a broadcast communication system	ATIS.3GPP.25.346V840-2010
10-1037993	Republic of Korea	Granted	Method and system for hard handoff in a broadcast communication system	ATIS.3GPP.25.346V840-2010
20042092	Norway	Pending	Method and System for Hard Handoff in a Broadcast Communication System	ATIS.3GPP.25.346V840-2010
202212	Taiwan	Granted	Method and System for Hard Handoff in a Broadcast Communication System	ATIS.3GPP.25.346V840-2010
6,876,636	United States	Granted	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.25.304V8120-2012
EP1522204	Belgium	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.304V8120-2012
EP1522204	Bulgaria	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.304V8120-2012

PI0312518-1	Brazil	Pending	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.25.304V8120-2012
8,243,644	United States	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.304V8120-2012
8,989,075	United States	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.304V8120-2012
ZL03821188.2	China P.R.	Granted	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.25.304V8120-2012
ZL200710180375.0	China P.R.	Granted	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.25.304V8120-2012
EP1522204	Czech Republic	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.304V8120-2012
EP1522204	Germany	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.304V8120-2012
EP1522204	European Patent Convention	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.304V8120-2012
EP1522204	Spain	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.304V8120-2012
EP1522204	Finland	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.304V8120-2012
EP1522204	France	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.304V8120-2012
EP1522204	Great Britain	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.304V8120-2012
HK1083287	Hong Kong	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.304V8120-2012
EP1522204	Hungary	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.304V8120-2012
EP1522204	Ireland	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.304V8120-2012
EP1522204	Italy	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.304V8120-2012
2009-180888	Japan	Pending	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.304V8120-2012
4847603	Japan	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.304V8120-2012
10-0999824	Republic of Korea	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.304V8120-2012
EP1522204	Netherlands	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.304V8120-2012
EP1522204	Romania	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.304V8120-2012
EP1522204	Sweden	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.304V8120-2012

I358239	Taiwan	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.304V8120-2012
I435629	Taiwan	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.304V8120-2012
I523556	Taiwan	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.304V8120-2012
6,876,636	United States	Granted	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.25.331V8250-2016
EP1522204	Belgium	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.331V8250-2016
EP1522204	Bulgaria	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.331V8250-2016
PI0312518-1	Brazil	Pending	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.25.331V8250-2016
8,243,644	United States	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.331V8250-2016
8,989,075	United States	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.331V8250-2016
ZL03821188.2	China P.R.	Granted	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.25.331V8250-2016
ZL200710180375.0	China P.R.	Granted	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.25.331V8250-2016
EP1522204	Czech Republic	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.331V8250-2016
EP1522204	Germany	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.331V8250-2016
EP1522204	European Patent Convention	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.331V8250-2016
EP1522204	Spain	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.331V8250-2016
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EP1522204	France	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.331V8250-2016
EP1522204	Great Britain	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.331V8250-2016
HK1083287	Hong Kong	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.331V8250-2016
EP1522204	Hungary	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.331V8250-2016
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EP1522204	Italy	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.331V8250-2016

2009-180888	Japan	Pending	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.331V8250-2016
4847603	Japan	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.331V8250-2016
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I358239	Taiwan	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.331V8250-2016
I435629	Taiwan	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.331V8250-2016
I523556	Taiwan	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.331V8250-2016
6,876,636	United States	Granted	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.25.346V840-2010
EP1522204	Belgium	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.346V840-2010
EP1522204	Bulgaria	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.346V840-2010
PI0312518-1	Brazil	Pending	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.25.346V840-2010
8,243,644	United States	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.346V840-2010
8,989,075	United States	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.346V840-2010
ZL03821188.2	China P.R.	Granted	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.25.346V840-2010
ZL200710180375.0	China P.R.	Granted	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.25.346V840-2010
EP1522204	Czech Republic	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.346V840-2010
EP1522204	Germany	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.346V840-2010
EP1522204	European Patent Convention	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.346V840-2010
EP1522204	Spain	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.346V840-2010
EP1522204	Finland	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.346V840-2010

EP1522204	France	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.346V840-2010
EP1522204	Great Britain	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.346V840-2010
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EP1522204	Hungary	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.346V840-2010
EP1522204	Ireland	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.346V840-2010
EP1522204	Italy	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.346V840-2010
2009-180888	Japan	Pending	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.346V840-2010
4847603	Japan	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.346V840-2010
10-0999824	Republic of Korea	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.346V840-2010
EP1522204	Netherlands	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.346V840-2010
EP1522204	Romania	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.346V840-2010
EP1522204	Sweden	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.346V840-2010
I358239	Taiwan	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.346V840-2010
I435629	Taiwan	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.346V840-2010
I523556	Taiwan	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.25.346V840-2010
6,876,636	United States	Granted	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.44.060V8170-2014
EP1522204	Belgium	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.44.060V8170-2014
EP1522204	Bulgaria	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.44.060V8170-2014
PI0312518-1	Brazil	Pending	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.44.060V8170-2014
8,243,644	United States	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.44.060V8170-2014
8,989,075	United States	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.44.060V8170-2014
ZL03821188.2	China P.R.	Granted	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.44.060V8170-2014

ZL200710180375.0	China P.R.	Granted	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.44.060V8170-2014
EP1522204	Czech Republic	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.44.060V8170-2014
EP1522204	Germany	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.44.060V8170-2014
EP1522204	European Patent Convention	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.44.060V8170-2014
EP1522204	Spain	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.44.060V8170-2014
EP1522204	Finland	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.44.060V8170-2014
EP1522204	France	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.44.060V8170-2014
EP1522204	Great Britain	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.44.060V8170-2014
HK1083287	Hong Kong	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.44.060V8170-2014
EP1522204	Hungary	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.44.060V8170-2014
EP1522204	Ireland	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.44.060V8170-2014
EP1522204	Italy	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.44.060V8170-2014
2009-180888	Japan	Pending	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.44.060V8170-2014
4847603	Japan	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.44.060V8170-2014
10-0999824	Republic of Korea	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.44.060V8170-2014
EP1522204	Netherlands	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.44.060V8170-2014
EP1522204	Romania	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.44.060V8170-2014
EP1522204	Sweden	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.44.060V8170-2014
I358239	Taiwan	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.44.060V8170-2014
I435629	Taiwan	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.44.060V8170-2014
I523556	Taiwan	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.44.060V8170-2014
6,799,043	United States	Granted	Method and Apparatus for a Reverse Link Supplemental Channel Scheduling	ATIS.3GPP.25.321V8170-2014
2002351185	Australia	Granted	Method and apparatus for a reverse link supplemental channel scheduling	ATIS.3GPP.25.321V8170-2014

PI0214662-2	Brazil	Pending	Method and Apparatus for a Reverse Link Supplemental Channel Scheduling	ATIS.3GPP.25.321V8170-2014
7,254,397	United States	Granted	Method and Apparatus for a Reverse Link Supplemental Channel Scheduling	ATIS.3GPP.25.321V8170-2014
7,941,152	United States	Granted	Method and apparatus for a reverse link supplemental channel scheduling	ATIS.3GPP.25.321V8170-2014
2468915	Canada	Granted	Method and apparatus for a reverse link supplemental channel scheduling	ATIS.3GPP.25.321V8170-2014
ZL02827518.7	China P.R.	Granted	Method and apparatus for a reverse link supplemental channel scheduling	ATIS.3GPP.25.321V8170-2014
ID0023942	Indonesia	Granted	Method and apparatus for a reverse link supplemental channel scheduling	ATIS.3GPP.25.321V8170-2014
IDP0027193	Indonesia	Granted	Method and apparatus for a reverse link supplemental channel scheduling	ATIS.3GPP.25.321V8170-2014
162219	Israel	Granted	Method and apparatus for a reverse link supplemental channel scheduling	ATIS.3GPP.25.321V8170-2014
239211	India	Granted	Method and apparatus for a reverse link supplemental channel scheduling	ATIS.3GPP.25.321V8170-2014
918/CHENP/2010	India	Pending	Method and apparatus for a reverse link supplemental channel scheduling	ATIS.3GPP.25.321V8170-2014
4319039	Japan	Granted	Method and apparatus for a reverse link supplemental channel scheduling	ATIS.3GPP.25.321V8170-2014
10-0959268	Republic of Korea	Granted	Method and apparatus for a reverse link supplemental channel scheduling	ATIS.3GPP.25.321V8170-2014
250056	Mexico	Granted	Method and apparatus for a reverse link supplemental channel scheduling	ATIS.3GPP.25.321V8170-2014
333661	Norway	Granted	Method and Apparatus for a Reverse Link Supplemental Channel Scheduling	ATIS.3GPP.25.321V8170-2014
2328091	Russian Federation	Granted	Method and Apparatus for a Reverse Link Supplemental Channel Scheduling	ATIS.3GPP.25.321V8170-2014
104720	Singapore	Granted	Method and Apparatus for a Reverse Link Supplemental Channel Scheduling	ATIS.3GPP.25.321V8170-2014
I306703	Taiwan	Granted	Method and apparatus for a reverse link supplemental channel scheduling	ATIS.3GPP.25.321V8170-2014
82659	Ukraine	Granted	Method and apparatus for a reverse link supplemental channel scheduling	ATIS.3GPP.25.321V8170-2014
7,522,588	United States	Granted	information (variants)	
7,522,588	United States	Granted	System and method for reference data processing in network assisted position determination	ATIS.3GPP.25.331V8250-2016
ZL03816552.X	China P.R.	Granted	System and method for reference data processing in network assisted position determination	ATIS.3GPP.25.331V8250-2016
265707	Mexico	Granted	System and method for reference data processing in network assisted position determination	ATIS.3GPP.25.331V8250-2016
7,522,588	United States	Granted	System and method for reference data processing in network assisted position determination	ATIS.3GPP.25.413V880-2012
ZL03816552.X	China P.R.	Granted	System and method for reference data processing in network assisted position determination	ATIS.3GPP.25.413V880-2012
265707	Mexico	Granted	System and method for reference data processing in network assisted position determination	ATIS.3GPP.25.413V880-2012
7,522,588	United States	Granted	System and method for reference data processing in network assisted position determination	ATIS.3GPP.25.430V800-2009
ZL03816552.X	China P.R.	Granted	System and method for reference data processing in network assisted position determination	ATIS.3GPP.25.430V800-2009
265707	Mexico	Granted	System and method for reference data processing in network assisted position determination	ATIS.3GPP.25.430V800-2009
7,522,588	United States	Granted	System and method for reference data processing in network assisted position determination	ATIS.3GPP.25.453V830-2016
ZL03816552.X	China P.R.	Granted	System and method for reference data processing in network assisted position determination	ATIS.3GPP.25.453V830-2016
265707	Mexico	Granted	System and method for reference data processing in network assisted position determination	ATIS.3GPP.25.453V830-2016

8,126,127	United States	Granted	Method and apparatus for provision of broadcast service information	ATIS.3GPP.25.346V840-2010
EP1468522	Belgium	Granted	Method and apparatus for provision of broadcast service information	ATIS.3GPP.25.346V840-2010
ZL03805008.0	China P.R.	Granted	Method and apparatus for provision of broadcast service information	ATIS.3GPP.25.346V840-2010
EP1468522	Germany	Granted	Method and apparatus for provision of broadcast service information	ATIS.3GPP.25.346V840-2010
EP1468522	European Patent Convention	Granted	Method and apparatus for provision of broadcast service information	ATIS.3GPP.25.346V840-2010
EP1468522	Spain	Granted	Method and apparatus for provision of broadcast service information	ATIS.3GPP.25.346V840-2010
EP1468522	Finland	Granted	Method and apparatus for provision of broadcast service information	ATIS.3GPP.25.346V840-2010
EP1468522	France	Granted	Method and apparatus for provision of broadcast service information	ATIS.3GPP.25.346V840-2010
EP1468522	Great Britain	Granted	Method and apparatus for provision of broadcast service information	ATIS.3GPP.25.346V840-2010
HK1077437	Hong Kong	Granted	Method and apparatus for provision of broadcast service information	ATIS.3GPP.25.346V840-2010
EP1468522	Hungary	Granted	Method and apparatus for provision of broadcast service information	ATIS.3GPP.25.346V840-2010
EP1468522	Ireland	Granted	Method and apparatus for provision of broadcast service information	ATIS.3GPP.25.346V840-2010
271492	India	Granted	Method and apparatus for provision of broadcast service information	ATIS.3GPP.25.346V840-2010
EP1468522	Italy	Granted	Method and apparatus for provision of broadcast service information	ATIS.3GPP.25.346V840-2010
4860905	Japan	Granted	Method and Apparatus for Provision of Broadcast Service Information	ATIS.3GPP.25.346V840-2010
10-0968084	Republic of Korea	Granted	Method and apparatus for provision of broadcast service information	ATIS.3GPP.25.346V840-2010
EP1468522	Netherlands	Granted	Method and apparatus for provision of broadcast service information	ATIS.3GPP.25.346V840-2010
EP1468522	Sweden	Granted	Method and apparatus for provision of broadcast service information	ATIS.3GPP.25.346V840-2010
I265687	Taiwan	Granted	Method and Apparatus for Provision of Broadcast Service Information	ATIS.3GPP.25.346V840-2010
PI0215377-7	Brazil	Granted	Creating and Using Base Station Almanac Information in a Wireless Communication System Having a Position Location Capability	ATIS.3GPP.25.331V8250-2016
162710	Israel	Granted	Creating and using base station almanac information in a wireless communication system having a position location capability	ATIS.3GPP.25.331V8250-2016
199138	Israel	Granted	Apparatus and method for creating and using base station almanac information in a wireless communication system having a position location capability	ATIS.3GPP.25.331V8250-2016
199139	Israel	Granted	Wireless communication network and method of maintaining a base station almanac in a wireless communication network having a position location capability	ATIS.3GPP.25.331V8250-2016
10-0986955	Republic of Korea	Granted	Creating and using base station almanac information in a wireless communication system having a position location capability	ATIS.3GPP.25.331V8250-2016
PI0215377-7	Brazil	Granted	Creating and Using Base Station Almanac Information in a Wireless Communication System Having a Position Location Capability	ATIS.3GPP.25.413V880-2012
162710	Israel	Granted	Creating and using base station almanac information in a wireless communication system having a position location capability	ATIS.3GPP.25.413V880-2012
199138	Israel	Granted	Apparatus and method for creating and using base station almanac information in a wireless communication system having a position location capability	ATIS.3GPP.25.413V880-2012
199139	Israel	Granted	Wireless communication network and method of maintaining a base station almanac in a wireless communication network having a position location capability	ATIS.3GPP.25.413V880-2012
10-0986955	Republic of Korea	Granted	Creating and using base station almanac information in a wireless communication system having a position location capability	ATIS.3GPP.25.413V880-2012

PI0215377-7	Brazil	Granted	Creating and Using Base Station Almanac Information in a Wireless Communication System Having a Position Location Capability	ATIS.3GPP.25.430V800-2009
162710	Israel	Granted	Creating and using base station almanac information in a wireless communication system having a position location capability	ATIS.3GPP.25.430V800-2009
199138	Israel	Granted	Apparatus and method for creating and using base station almanac information in a wireless communication system having a position location capability	ATIS.3GPP.25.430V800-2009
199139	Israel	Granted	Wireless communication network and method of maintaining a base station almanac in a wireless communication network having a position location capability	ATIS.3GPP.25.430V800-2009
10-0986955	Republic of Korea	Granted	Creating and using base station almanac information in a wireless communication system having a position location capability	ATIS.3GPP.25.430V800-2009
PI0215377-7	Brazil	Granted	Creating and Using Base Station Almanac Information in a Wireless Communication System Having a Position Location Capability	ATIS.3GPP.25.453V830-2016
162710	Israel	Granted	Creating and using base station almanac information in a wireless communication system having a position location capability	ATIS.3GPP.25.453V830-2016
199138	Israel	Granted	Apparatus and method for creating and using base station almanac information in a wireless communication system having a position location capability	ATIS.3GPP.25.453V830-2016
199139	Israel	Granted	Wireless communication network and method of maintaining a base station almanac in a wireless communication network having a position location capability	ATIS.3GPP.25.453V830-2016
10-0986955	Republic of Korea	Granted	Creating and using base station almanac information in a wireless communication system having a position location capability	ATIS.3GPP.25.453V830-2016
7,742,781	United States	Granted	Power control for point-to-multipoint services provided in communication systems	ATIS.3GPP.36.300V8120-2010
2002306977	Australia	Granted	Power control for point-to-multipoint services provided in communication systems	ATIS.3GPP.36.300V8120-2010
2007219304	Australia	Granted	Power control for point-to-multipoint services provided in communication systems	ATIS.3GPP.36.300V8120-2010
EP1374440	Belgium	Granted	Power control for point-to-multipoint services provided in communication systems	ATIS.3GPP.36.300V8120-2010
PI0208493-7	Brazil	Pending	Power Control for Point-to-Multipoint Services Provided in Communication Systems	ATIS.3GPP.36.300V8120-2010
ZL02810736.5	China P.R.	Granted	Power control for point-to-multipoint services provided in communication systems	ATIS.3GPP.36.300V8120-2010
EP1374440	European Patent Convention	Granted	Power control for point-to-multipoint services provided in communication systems	ATIS.3GPP.36.300V8120-2010
11105612.4	Hong Kong	Pending	Power control for point-to-multipoint services provided in communication system	ATIS.3GPP.36.300V8120-2010
EP1374440	Spain	Granted	Power control for point-to-multipoint services provided in communication systems	ATIS.3GPP.36.300V8120-2010
EP1374440	Finland	Granted	Power control for point-to-multipoint services provided in communication systems	ATIS.3GPP.36.300V8120-2010
EP1374440	France	Granted	Power control for point-to-multipoint services provided in communication systems	ATIS.3GPP.36.300V8120-2010

EP1374440	Great Britain	Granted	Power control for point-to-multipoint services provided in communication systems	ATIS.3GPP.36.300V8120-2010
HK1064227	Hong Kong	Granted	Power control for point-to-multipoint services provided in communication systems	ATIS.3GPP.36.300V8120-2010
ID0021327	Indonesia	Granted	Power control for point-to-multipoint services provided in communication systems	ATIS.3GPP.36.300V8120-2010
EP1374440	Ireland	Granted	Power control for point-to-multipoint services provided in communication systems	ATIS.3GPP.36.300V8120-2010
158162	Israel	Granted	Power control for point-to-multipoint services provided in communication systems	ATIS.3GPP.36.300V8120-2010
226333	India	Granted	Method for power control for point-to-multipoint services in a communication system	ATIS.3GPP.36.300V8120-2010
10-0896228	Republic of Korea	Granted	Power control for point-to-multipoint services provided in communication systems	ATIS.3GPP.36.300V8120-2010
259859	Mexico	Granted	Power control for point-to-multipoint services provided in communication systems	ATIS.3GPP.36.300V8120-2010
EP1374440	Netherlands	Granted	Power control for point-to-multipoint services provided in communication systems	ATIS.3GPP.36.300V8120-2010
2294596	Russian Federation	Granted	Power Control for Point-to-Multipoint Services Provided in Communication Systems	ATIS.3GPP.36.300V8120-2010
99229	Singapore	Granted	Power Control for Point-to-Multipoint Services Provided in Communication Systems	ATIS.3GPP.36.300V8120-2010
197922	Taiwan	Granted	Method and Apparatus for Power Control for Point-to-Multipoint Services in a Communication System	ATIS.3GPP.36.300V8120-2010
75125	Ukraine	Granted	Method for Power Control for Point-to-Multipoint Services in Communication System (Variants) and Apparatus for Implementation This Method (Variants)	ATIS.3GPP.36.300V8120-2010
7,792,074	United States	Granted	Method and apparatus for channel management for point-to-multipoint services in a communication system	ATIS.3GPP.36.300V8120-2010
ZL02809837.4	China P.R.	Granted	Method and apparatus for channel management for point-to-multipoint services in a communication system	ATIS.3GPP.36.300V8120-2010
HK1073959	Hong Kong	Granted	Method and apparatus for channel management for point-to-multipoint services in a communication system	ATIS.3GPP.36.300V8120-2010
239446	India	Granted	Method and apparatus for channel management for point-to-multipoint services in a communication system	ATIS.3GPP.36.300V8120-2010
262872	Mexico	Granted	Method and Apparatus for Channel Management for Point-to-Multipoint Services in a Communication System	ATIS.3GPP.36.300V8120-2010
193810	Taiwan	Granted	Method and Apparatus for Channel Management for Point-to-Multipoint Services in a Communication System	ATIS.3GPP.36.300V8120-2010
7,630,711	United States	Granted	Method and system for mapping provisioning information of different communications networks	ATIS.3GPP.44.318V870-2010
8,005,475	United States	Granted	Method and system for mapping provisioning information of different communications networks	ATIS.3GPP.44.318V870-2010
7,177,658	United States	Granted	Multi-Media Broadcast and Multicast Service (MBMS) in a Wireless Communications System	ATIS.3GPP.25.346V840-2010

PI0311851-7	Brazil	Pending	Frame Formatting, Coding and Transmit Power Control Method for a Multicast/Broadcast System	ATIS.3GPP.25.346V840-2010
7,583,977	United States	Granted	Multi-media broadcast and multicast service (MBMS) in a wireless communication system	ATIS.3GPP.25.346V840-2010
8,451,770	United States	Granted	Multi-media broadcast and multicast service (MBMS) in a wireless communication system	ATIS.3GPP.25.346V840-2010
ZL03815846.9	China P.R.	Granted	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.25.346V840-2010
7,593,746	United States	Granted	MULTI-MEDIA BROADCAST AND MULTICAST SERVICE (MBMS) IN A WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.25.346V840-2010
EP1502176	Germany	Granted	Frame Formatting, Coding and Transmit Power Control Method for a Multicast/Broadcast System	ATIS.3GPP.25.346V840-2010
EP1502176	European Patent Convention	Granted	Frame Formatting, and Coding for a Multicast/Broadcast System	ATIS.3GPP.25.346V840-2010
13172347.0	European Patent Convention	Pending	Frame Formatting, Coding and Transmit Power Control Method for a Multicast/Broadcast System	ATIS.3GPP.25.346V840-2010
EP1502176	France	Granted	Frame Formatting, Coding and Transmit Power Control Method for a Multicast/Broadcast System	ATIS.3GPP.25.346V840-2010
EP1502176	Great Britain	Granted	Frame Formatting, Coding and Transmit Power Control Method for a Multicast/Broadcast System	ATIS.3GPP.25.346V840-2010
HK1082302	Hong Kong	Granted	Frame Formatting, Coding and Transmit Power Control Method for a Multicast/Broadcast System	ATIS.3GPP.25.346V840-2010
4508865	Japan	Granted	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.25.346V840-2010
2009-293836	Japan	Pending	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.25.346V840-2010
2014-104435	Japan	Pending	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.25.346V840-2010
2016-058349	Japan	Pending	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.25.346V840-2010
10-1157232	Republic of Korea	Granted	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.25.346V840-2010
10-1058677	Republic of Korea	Granted	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.25.346V840-2010
I294744	Taiwan	Granted	Multi-media broadcast and multicast service (MBMS) in a wireless communications system	ATIS.3GPP.25.346V840-2010
7,177,658	United States	Granted	Multi-Media Broadcast and Multicast Service (MBMS) in a Wireless Communications System	ATIS.3GPP.43.246V800-2010
PI0311851-7	Brazil	Pending	Frame Formatting, Coding and Transmit Power Control Method for a Multicast/Broadcast System	ATIS.3GPP.43.246V800-2010
7,583,977	United States	Granted	Multi-media broadcast and multicast service (MBMS) in a wireless communication system	ATIS.3GPP.43.246V800-2010
8,451,770	United States	Granted	Multi-media broadcast and multicast service (MBMS) in a wireless communication system	ATIS.3GPP.43.246V800-2010

ZL03815846.9	China P.R.	Granted	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.43.246V800-2010
7,593,746	United States	Granted	MULTI-MEDIA BROADCAST AND MULTICAST SERVICE (MBMS) IN A WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.43.246V800-2010
EP1502176	Germany	Granted	Frame Formatting, Coding and Transmit Power Control Method for a Multicast/Broadcast System	ATIS.3GPP.43.246V800-2010
EP1502176	European Patent Convention	Granted	Frame Formatting, and Coding for a Multicast/Broadcast System	ATIS.3GPP.43.246V800-2010
13172347.0	European Patent Convention	Pending	Frame Formatting, Coding and Transmit Power Control Method for a Multicast/Broadcast System	ATIS.3GPP.43.246V800-2010
EP1502176	France	Granted	Frame Formatting, Coding and Transmit Power Control Method for a Multicast/Broadcast System	ATIS.3GPP.43.246V800-2010
EP1502176	Great Britain	Granted	Frame Formatting, Coding and Transmit Power Control Method for a Multicast/Broadcast System	ATIS.3GPP.43.246V800-2010
HK1082302	Hong Kong	Granted	Frame Formatting, Coding and Transmit Power Control Method for a Multicast/Broadcast System	ATIS.3GPP.43.246V800-2010
4508865	Japan	Granted	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.43.246V800-2010
2009-293836	Japan	Pending	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.43.246V800-2010
2014-104435	Japan	Pending	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.43.246V800-2010
2016-058349	Japan	Pending	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.43.246V800-2010
10-1157232	Republic of Korea	Granted	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.43.246V800-2010
10-1058677	Republic of Korea	Granted	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.43.246V800-2010
I294744	Taiwan	Granted	Multi-media broadcast and multicast service (MBMS) in a wireless communications system	ATIS.3GPP.43.246V800-2010
7,319,876	United States	Granted	System and Method for Using Equipment identity Information in Providing Location Services to a Wireless Communication Device	ATIS.3GPP.49.031V810-2010
PI0313697-3	Brazil	Pending	System and Method for Using Equipment Identity Information in Providing Location Services to a Wireless Communication Device	ATIS.3GPP.49.031V810-2010
2496460	Canada	Granted	System and method for using equipment identity information in providing location services to a wireless communication device	ATIS.3GPP.49.031V810-2010
ZL03823721.0	China P.R.	Granted	System and method for using equipment identity information in providing location services to a wireless communication device	ATIS.3GPP.49.031V810-2010
EP1532833	Germany	Granted	System and method for using equipment identity information in providing location services to a wireless communication device	ATIS.3GPP.49.031V810-2010
EP1532833	European Patent Convention	Granted	System and method for using equipment identity information in providing location services to a wireless communication device	ATIS.3GPP.49.031V810-2010
EP1532833	Spain	Granted	System and method for using equipment identity information in providing location services to a wireless communication device	ATIS.3GPP.49.031V810-2010

EP1532833	Finland	Granted	System and method for using equipment identity information in providing location services to a wireless communication device	ATIS.3GPP.49.031V810-2010
EP1532833	Great Britain	Granted	System and method for using equipment identity information in providing location services to a wireless communication device	ATIS.3GPP.49.031V810-2010
HK1081780	Hong Kong	Granted	System and method for using equipment identity information in providing location services to a wireless communication device	ATIS.3GPP.49.031V810-2010
166642	Israel	Granted	System and method for using equipment identity information in providing location services to a wireless communication device	ATIS.3GPP.49.031V810-2010
218786	India	Granted	System and method for using equipment identity information in providing location services to a wireless communication device	ATIS.3GPP.49.031V810-2010
EP1532833	Italy	Granted	System and method for using equipment identity information in providing location services to a wireless communication device	ATIS.3GPP.49.031V810-2010
10-0915566	Republic of Korea	Granted	System and method for using equipment identity information in providing location services to a wireless communication device	ATIS.3GPP.49.031V810-2010
254166	Mexico	Granted	System and method for using equipment identity information in providing location services to a wireless communication device	ATIS.3GPP.49.031V810-2010
EP1532833	Sweden	Granted	System and method for using equipment identity information in providing location services to a wireless communication device	ATIS.3GPP.49.031V810-2010
8,213,390	United States	Granted	Reverse link automatic repeat request	ATIS.3GPP.25.321V8170-2014
2003287292	Australia	Granted	Reverse link automatic repeat request	ATIS.3GPP.25.321V8170-2014
PI0315559-5	Brazil	Pending	Reverse Link Automatic Repeat Request	ATIS.3GPP.25.321V8170-2014
2501919	Canada	Granted	Reverse link automatic repeat request	ATIS.3GPP.25.321V8170-2014
ZL200380102096.2	China P.R.	Granted	Reverse link automatic repeat request	ATIS.3GPP.25.321V8170-2014
03781526.3	European Patent Convention	Pending	Reverse Link Automatic Repeat Request	ATIS.3GPP.25.321V8170-2014
IDP0024684	Indonesia	Granted	Reverse link automatic repeat request	ATIS.3GPP.25.321V8170-2014
167790	Israel	Granted	Reverse link automatic repeat request	ATIS.3GPP.25.321V8170-2014
226656	India	Granted	Method and apparatus for automatic repeat request in a wireless communication system	ATIS.3GPP.25.321V8170-2014
5053513	Japan	Granted	Reverse link automatic repeat request	ATIS.3GPP.25.321V8170-2014
2010-166164	Japan	Pending	Reverse link automatic repeat request	ATIS.3GPP.25.321V8170-2014
10-1038265	Republic of Korea	Granted	Reverse link automatic repeat request	ATIS.3GPP.25.321V8170-2014
270179	Mexico	Granted	Reverse link automatic repeat request	ATIS.3GPP.25.321V8170-2014
2347319	Russian Federation	Granted	Reverse link automatic repeat request	ATIS.3GPP.25.321V8170-2014
I339515	Taiwan	Granted	Reverse Link Automatic Repeat Request	ATIS.3GPP.25.321V8170-2014
84278	Ukraine	Granted	Reverse Link Automatic Repeat Request	ATIS.3GPP.25.321V8170-2014
8,213,390	United States	Granted	Reverse link automatic repeat request	ATIS.3GPP.36.321V8120-2014
2003287292	Australia	Granted	Reverse link automatic repeat request	ATIS.3GPP.36.321V8120-2014
PI0315559-5	Brazil	Pending	Reverse Link Automatic Repeat Request	ATIS.3GPP.36.321V8120-2014
2501919	Canada	Granted	Reverse link automatic repeat request	ATIS.3GPP.36.321V8120-2014
ZL200380102096.2	China P.R.	Granted	Reverse link automatic repeat request	ATIS.3GPP.36.321V8120-2014
03781526.3	European Patent Convention	Pending	Reverse Link Automatic Repeat Request	ATIS.3GPP.36.321V8120-2014
IDP0024684	Indonesia	Granted	Reverse link automatic repeat request	ATIS.3GPP.36.321V8120-2014

167790	Israel	Granted	Reverse link automatic repeat request	ATIS.3GPP.36.321V8120-2014
226656	India	Granted	Method and apparatus for automatic repeat request in a wireless communication system	ATIS.3GPP.36.321V8120-2014
5053513	Japan	Granted	Reverse link automatic repeat request	ATIS.3GPP.36.321V8120-2014
2010-166164	Japan	Pending	Reverse link automatic repeat request	ATIS.3GPP.36.321V8120-2014
10-1038265	Republic of Korea	Granted	Reverse link automatic repeat request	ATIS.3GPP.36.321V8120-2014
270179	Mexico	Granted	Reverse link automatic repeat request	ATIS.3GPP.36.321V8120-2014
2347319	Russian Federation	Granted	Reverse link automatic repeat request	ATIS.3GPP.36.321V8120-2014
I339515	Taiwan	Granted	Reverse Link Automatic Repeat Request	ATIS.3GPP.36.321V8120-2014
84278	Ukraine	Granted	Reverse Link Automatic Repeat Request	ATIS.3GPP.36.321V8120-2014
7,564,818	United States	Granted	Reverse Link Automatic Repeat Request	ATIS.3GPP.25.321V8170-2014
8,116,283	United States	Granted	Reverse link automatic repeat request	ATIS.3GPP.25.321V8170-2014
7,564,818	United States	Granted	Reverse Link Automatic Repeat Request	ATIS.3GPP.36.321V8120-2014
8,116,283	United States	Granted	Reverse link automatic repeat request	ATIS.3GPP.36.321V8120-2014
2003262724	Australia	Granted	Method and system for communicating content on a broadcast services communication system	ATIS.3GPP.25.321V8170-2014
PI0313596-9	Brazil	Pending	Method and System for Communicating Content on a Broadcast Services Communication System	ATIS.3GPP.25.321V8170-2014
ZL03823745.8	China P.R.	Granted	Method and System for Communicating Content on a Broadcast Services Communication System	ATIS.3GPP.25.321V8170-2014
EP1540975	Germany	Granted	Method and System for Communicating Content on a Broadcast Services Communication System	ATIS.3GPP.25.321V8170-2014
EP1540975	European Patent Convention	Granted	Method and System for Communicating Content on a Broadcast Services Communication System	ATIS.3GPP.25.321V8170-2014
EP1540975	Great Britain	Granted	Method and System for Communicating Content on a Broadcast Services Communication System	ATIS.3GPP.25.321V8170-2014
HK1083969	Hong Kong	Granted	Method and System for Communicating Content on a Broadcast Services Communication System	ATIS.3GPP.25.321V8170-2014
ID0019774	Indonesia	Granted	Method and System for Communicating Content on a Broadcast Services Communication System	ATIS.3GPP.25.321V8170-2014
166501	Israel	Granted	Method and system for communicating content on a broadcast services communication system	ATIS.3GPP.25.321V8170-2014
218779	India	Granted	METHOD AND SUBSCRIBER STATION FOR COMMUNICATING CONTENT ON A BROADCAST COMMUNICATION SYSTEM	ATIS.3GPP.25.321V8170-2014
4331108	Japan	Granted	Method and System for Communicating Content on a Broadcast Services Communication System	ATIS.3GPP.25.321V8170-2014
10-0972763	Republic of Korea	Granted	Method and system for communicating content on a broadcast services communication system	ATIS.3GPP.25.321V8170-2014
250068	Mexico	Granted	Method and System for Communicating Content on a Broadcast Services Communication System	ATIS.3GPP.25.321V8170-2014
2330385	Russian Federation	Granted	Method and system for communicating content on a broadcast services communication system	ATIS.3GPP.25.321V8170-2014

2482608	Russian Federation	Granted	Method and system for communicating content on a broadcast services communication system	ATIS.3GPP.25.321V8170-2014
I348328	Taiwan	Granted	Method and system for communicating content on a broadcast services communication system	ATIS.3GPP.25.321V8170-2014
I435646	Taiwan	Granted	Method and System for Communicating Content on a Broadcast Services Communication System	ATIS.3GPP.25.321V8170-2014
83347	Ukraine	Granted	Method and system for communicating content on a broadcast services communication system	ATIS.3GPP.25.321V8170-2014
7,020,109	United States	Granted	Method and System for Communicating Content on a Broadcast Services Communication System	ATIS.3GPP.25.322V890-2012
7,643,452	United States	Granted	Method and system for communicating content on a broadcast services communication system	ATIS.3GPP.25.322V890-2012
7,020,109	United States	Granted	Method and System for Communicating Content on a Broadcast Services Communication System	ATIS.3GPP.25.331V8250-2016
7,643,452	United States	Granted	Method and system for communicating content on a broadcast services communication system	ATIS.3GPP.25.331V8250-2016
7,020,109	United States	Granted	Method and System for Communicating Content on a Broadcast Services Communication System	ATIS.3GPP.25.346V840-2010
7,643,452	United States	Granted	Method and system for communicating content on a broadcast services communication system	ATIS.3GPP.25.346V840-2010
7,016,327	United States	Granted	Method and System for Communicating Content on a Broadcast Services Communication System	ATIS.3GPP.25.322V890-2012
7,675,944	United States	Granted	Method and system for communicating content on a broadcast services communication system	ATIS.3GPP.25.322V890-2012
8,010,111	United States	Granted	Method and system for communicating content on a broadcast services communication system	ATIS.3GPP.25.322V890-2012
7,016,327	United States	Granted	Method and System for Communicating Content on a Broadcast Services Communication System	ATIS.3GPP.25.331V8250-2016
7,675,944	United States	Granted	Method and system for communicating content on a broadcast services communication system	ATIS.3GPP.25.331V8250-2016
8,010,111	United States	Granted	Method and system for communicating content on a broadcast services communication system	ATIS.3GPP.25.331V8250-2016
7,016,327	United States	Granted	Method and System for Communicating Content on a Broadcast Services Communication System	ATIS.3GPP.25.346V840-2010
7,675,944	United States	Granted	Method and system for communicating content on a broadcast services communication system	ATIS.3GPP.25.346V840-2010
8,010,111	United States	Granted	Method and system for communicating content on a broadcast services communication system	ATIS.3GPP.25.346V840-2010
8,037,188	United States	Granted	Soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.23.206V750-2008
EP1647127	Austria	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.23.206V750-2008
2004211422	Australia	Pending	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.23.206V750-2008

2011218705	Australia	Granted	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.23.206V750-2008
EP1647127	Belgium	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.23.206V750-2008
PI0407444-0	Brazil	Pending	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.23.206V750-2008
9,407,465	United States	Granted	Soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.23.206V750-2008
2515902	Canada	Pending	Soft handoff across different networks assisted by an End-to-End application protocol	ATIS.3GPP.23.206V750-2008
2932095	Canada	Pending	Soft handoff across different networks assisted by an End-to-End application protocol	ATIS.3GPP.23.206V750-2008
EP1647127	Switzerland	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.23.206V750-2008
201310655498.0	China P.R.	Pending	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.23.206V750-2008
EP1647127	Germany	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.23.206V750-2008
EP1647127	Denmark	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.23.206V750-2008
EP1647127	European Patent Convention	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.23.206V750-2008
14190879.8	European Patent Convention	Pending	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.23.206V750-2008
EP1647127	Spain	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.23.206V750-2008
EP1647127	Finland	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.23.206V750-2008
EP1647127	France	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.23.206V750-2008
EP1647127	Great Britain	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.23.206V750-2008
EP1647127	Greece	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.23.206V750-2008
06109703.3	Hong Kong	Pending	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.23.206V750-2008
EP1647127	Hungary	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.23.206V750-2008
W-00200502153	Indonesia	Pending	SOFT HANDOFF ACROSS DIFFERENT NETWORK ASSISTED BY AN END-TO-END APPLICATION PROTOCOL	ATIS.3GPP.23.206V750-2008
EP1647127	Ireland	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.23.206V750-2008
170108	Israel	Granted	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.23.206V750-2008

214230	Israel	Granted	Soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.23.206V750-2008
223963	India	Granted	Soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.23.206V750-2008
EP1647127	Italy	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.23.206V750-2008
5431371	Japan	Granted	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.23.206V750-2008
5851936	Japan	Granted	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.23.206V750-2008
2015-121235	Japan	Pending	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.23.206V750-2008
10-1007610	Republic of Korea	Granted	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.23.206V750-2008
272219	Mexico	Granted	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.23.206V750-2008
EP1647127	Netherlands	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.23.206V750-2008
EP1647127	Portugal	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.23.206V750-2008
EP1647127	Romania	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.23.206V750-2008
2363112	Russian Federation	Granted	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.23.206V750-2008
2395922	Russian Federation	Granted	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.23.206V750-2008
2469486	Russian Federation	Granted	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.23.206V750-2008
EP1647127	Sweden	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.23.206V750-2008
I339967	Taiwan	Granted	Method, user agent, network application gateway, and computer-readable medium for soft handoff across different networks	ATIS.3GPP.23.206V750-2008
92130	Ukraine	Granted	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.23.206V750-2008
104277	Ukraine	Granted	Method (variants) and a computer-readable medium for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.23.206V750-2008
94358	Ukraine	Granted	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.23.206V750-2008
8,037,188	United States	Granted	Soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.24.206V750-2008
EP1647127	Austria	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.24.206V750-2008
2004211422	Australia	Pending	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.24.206V750-2008

2011218705	Australia	Granted	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.24.206V750-2008
EP1647127	Belgium	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.24.206V750-2008
PI0407444-0	Brazil	Pending	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.24.206V750-2008
9,407,465	United States	Granted	Soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.24.206V750-2008
2515902	Canada	Pending	Soft handoff across different networks assisted by an End-to-End application protocol	ATIS.3GPP.24.206V750-2008
2932095	Canada	Pending	Soft handoff across different networks assisted by an End-to-End application protocol	ATIS.3GPP.24.206V750-2008
EP1647127	Switzerland	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.24.206V750-2008
201310655498.0	China P.R.	Pending	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.24.206V750-2008
EP1647127	Germany	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.24.206V750-2008
EP1647127	Denmark	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.24.206V750-2008
EP1647127	European Patent Convention	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.24.206V750-2008
14190879.8	European Patent Convention	Pending	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.24.206V750-2008
EP1647127	Spain	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.24.206V750-2008
EP1647127	Finland	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.24.206V750-2008
EP1647127	France	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.24.206V750-2008
EP1647127	Great Britain	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.24.206V750-2008
EP1647127	Greece	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.24.206V750-2008
06109703.3	Hong Kong	Pending	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.24.206V750-2008
EP1647127	Hungary	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.24.206V750-2008
W-00200502153	Indonesia	Pending	SOFT HANDOFF ACROSS DIFFERENT NETWORK ASSISTED BY AN END-TO-END APPLICATION PROTOCOL	ATIS.3GPP.24.206V750-2008
EP1647127	Ireland	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.24.206V750-2008
170108	Israel	Granted	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.24.206V750-2008

214230	Israel	Granted	Soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.24.206V750-2008
223963	India	Granted	Soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.24.206V750-2008
EP1647127	Italy	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.24.206V750-2008
5431371	Japan	Granted	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.24.206V750-2008
5851936	Japan	Granted	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.24.206V750-2008
2015-121235	Japan	Pending	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.24.206V750-2008
10-1007610	Republic of Korea	Granted	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.24.206V750-2008
272219	Mexico	Granted	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.24.206V750-2008
EP1647127	Netherlands	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.24.206V750-2008
EP1647127	Portugal	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.24.206V750-2008
EP1647127	Romania	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.24.206V750-2008
2363112	Russian Federation	Granted	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.24.206V750-2008
2395922	Russian Federation	Granted	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.24.206V750-2008
2469486	Russian Federation	Granted	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.24.206V750-2008
EP1647127	Sweden	Granted	Method, User Agent, Application Gateway and Program for Soft Handoff Across Different Networks Assisted by an End-to-End Application Protocol	ATIS.3GPP.24.206V750-2008
I339967	Taiwan	Granted	Method, user agent, network application gateway, and computer-readable medium for soft handoff across different networks	ATIS.3GPP.24.206V750-2008
92130	Ukraine	Granted	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.24.206V750-2008
104277	Ukraine	Granted	Method (variants) and a computer-readable medium for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.24.206V750-2008
94358	Ukraine	Granted	Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol	ATIS.3GPP.24.206V750-2008
7,283,782	United States	Granted	Method and Apparatus for Switching Between Shared and Individual Channels to Provide Broadcast Content Services in a Wireless Telephone Network	ATIS.3GPP.25.346V840-2010
PI0315527-7	Brazil	Pending	Method and Apparatus for Switching Between Shared and Individual Channels to Provide Broadcast Content Services in a Wireless Telephone Network	ATIS.3GPP.25.346V840-2010
7,738,832	United States	Granted	Method and apparatus for switching between shared and individual channels to provide broadcast content services in a wireless telephone network	ATIS.3GPP.25.346V840-2010

8,086,169	United States	Granted	Method and apparatus for switching between shared and individual channels to provide broadcast content services in a wireless telephone network	ATIS.3GPP.25.346V840-2010
2501597	Canada	Granted	Method and apparatus for switching between shared and individual channels to provide broadcast content services in a wireless telephone network	ATIS.3GPP.25.346V840-2010
ZL200380104582.8	China P.R.	Granted	Method and apparatus for switching between shared and individual channels to provide broadcast content services in a wireless telephone network	ATIS.3GPP.25.346V840-2010
ZL200910003313.1	China P.R.	Granted	Method and apparatus for switching between shared and individual channels to provide broadcast content services in a wireless telephone network	ATIS.3GPP.25.346V840-2010
EP1554899	Germany	Granted	Method and Apparatus for Switching Between Shared and Individual Channels to Provide Broadcast Content Services in a Wireless Telephone Network	ATIS.3GPP.25.346V840-2010
EP1554899	European Patent Convention	Granted	Method and Apparatus for Switching Between Shared and Individual Channels to Provide Broadcast Content Services in a Wireless Telephone Network	ATIS.3GPP.25.346V840-2010
09161980.9	European Patent Convention	Pending	Method and Apparatus for Switching Between Shared and Individual Channels to Provide Broadcast Content Services in a Wireless Telephone Network	ATIS.3GPP.25.346V840-2010
EP1554899	France	Granted	Method and Apparatus for Switching Between Shared and Individual Channels to Provide Broadcast Content Services in a Wireless Telephone Network	ATIS.3GPP.25.346V840-2010
EP1554899	Great Britain	Granted	Method and Apparatus for Switching Between Shared and Individual Channels to Provide Broadcast Content Services in a Wireless Telephone Network	ATIS.3GPP.25.346V840-2010
204411	Israel	Pending	Method and apparatus for switching between shared and individual channels to provide broadcast content services in a wireless telephone network	ATIS.3GPP.25.346V840-2010
222679	India	Granted	A method of operating a wireless subscriber and a wireless communications network	ATIS.3GPP.25.346V840-2010
EP1554899	Italy	Granted	Method and Apparatus for Switching Between Shared and Individual Channels to Provide Broadcast Content Services in a Wireless Telephone Network	ATIS.3GPP.25.346V840-2010
4494210	Japan	Granted	Method and apparatus for switching between shared and individual channels to provide broadcast content services in a wireless telephone network	ATIS.3GPP.25.346V840-2010
10-1053804	Republic of Korea	Granted	Method and apparatus for switching between shared and individual channels to provide broadcast content services in a wireless telephone network	ATIS.3GPP.25.346V840-2010
256860	Mexico	Granted	Method and apparatus for switching between shared and individual channels to provide broadcast content services in a wireless telephone network	ATIS.3GPP.25.346V840-2010
276318	Mexico	Granted	Method and apparatus for switching between shared and individual channels to provide broadcast content services in a wireless telephone network	ATIS.3GPP.25.346V840-2010
2344571	Russian Federation	Granted	Method and apparatus for switching between shared and individual channels to provide broadcast content services in a wireless telephone network	ATIS.3GPP.25.346V840-2010
I349494	Taiwan	Granted	Method and Apparatus for Switching Between Shared and Individual Channels to Provide Broadcast Content Services in a Wireless Telephone Network	ATIS.3GPP.25.346V840-2010
86189	Ukraine	Granted	Method and apparatus for switching between shared and individual channels to provide broadcast content services in a wireless telephone network	ATIS.3GPP.25.346V840-2010
7,477,618	United States	Granted	Method and Apparatus for Stealing Power or Code for Data Channel Operations	ATIS.3GPP.25.321V8170-2014
ZL200380102067.6	China P.R.	Granted	Method for stealing power or walsh-code for a data channel (e.g. shared data channel) from a dedicated channel (e.g. voice channel)	ATIS.3GPP.25.321V8170-2014
03778004.6	European Patent Convention	Pending	Method for Stealing Power or Walsh-Code for a Data Channel (e.g. Shared Data Channel) from a Dedicated Channel (e.g. Voice Channel)	ATIS.3GPP.25.321V8170-2014

224495	India	Granted	Method for Stealing Power or Walsh-Code for a Data Channel (e.g. Shared Data Channel) from a Dedicated Channel (e.g. Voice Channel)	ATIS.3GPP.25.321V8170-2014
4741236	Japan	Granted	Method for stealing power or walsh-code for a data channel (e.g. shared data channel) from a dedicated channel (e.g. voice channel)	ATIS.3GPP.25.321V8170-2014
10-1056002	Republic of Korea	Granted	Method for stealing power or walsh-code for a data channel (e.g. shared data channel) from a dedicated channel (e.g. voice channel)	ATIS.3GPP.25.321V8170-2014
7,096,024	United States	Granted	Method and Apparatus to Initiate Point-to-Point Call During Shared-Channel Delivery of Broadcast Content in a Wireless Telephone Network	ATIS.3GPP.25.331V8250-2016
2004209294	Australia	Pending	Method and Apparatus to Initiate Point-to-Point Call During Shared-Channel Delivery of Broadcast Content in a Wireless Telephone Network	ATIS.3GPP.25.331V8250-2016
PI0407128-0	Brazil	Pending	Method and Apparatus to Initiate Point-to-Point Call During Shared-Channel Delivery of Broadcast Content in a Wireless Telephone Network	ATIS.3GPP.25.331V8250-2016
7,328,022	United States	Granted	Method and Apparatus to Initiate Point-to-Point Call During Shared-Channel Delivery of Broadcast Content in a Wireless Telephone Network	ATIS.3GPP.25.331V8250-2016
8,781,482	United States	Granted	Method and apparatus to initiate point-to-point call during shared-channel delivery of broadcast content in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
7,477,916	United States	Granted	Method and apparatus to initiate point-to-point call during shared-channel delivery of broadcast content in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
7,751,821	United States	Granted	Method and apparatus to initiate point-to-point call during shared-channel delivery of broadcast content in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
7,881,696	United States	Granted	Method and apparatus to initiate point-to-point call during shared-channel delivery of broadcast content in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
2514895	Canada	Granted	Method and apparatus to initiate point-to-point call during shared-channel delivery of broadcast content in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
ZL200480008786.6	China P.R.	Granted	Method and apparatus to initiate point-to-point call during shared-channel delivery of broadcast content in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
04707452.1	European Patent Convention	Pending	Method and Apparatus to Initiate Point-to-Point Call During Shared-Channel Delivery of Broadcast Content in a Wireless Telephone Network	ATIS.3GPP.25.331V8250-2016
223325	India	Granted	Method and Apparatus to Initiate Point-to-Point Call During Shared-Channel Delivery of Broadcast Content in a Wireless Telephone Network	ATIS.3GPP.25.331V8250-2016
4468355	Japan	Granted	Method and apparatus to initiate point-to-point call during shared-channel delivery of broadcast content in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
4746124	Japan	Granted	Method and apparatus to initiate point-to-point call during shared-channel delivery of broadcast content in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
4746125	Japan	Granted	Method and apparatus to initiate point-to-point call during shared-channel delivery of broadcast content in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
10-1053818	Republic of Korea	Granted	Method and apparatus to initiate point-to-point call during shared-channel delivery of broadcast content in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
255339	Mexico	Granted	Method and apparatus to initiate point-to-point call during shared-channel delivery of broadcast content in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
288584	Mexico	Granted	Method and apparatus to initiate point-to-point call during shared-channel delivery of broadcast content in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
2357368	Russian Federation	Granted	Method and apparatus to initiate point-to-point call during shared-channel delivery of broadcast content in a wireless telephone network	ATIS.3GPP.25.331V8250-2016

2509426	Russian Federation	Granted	Method and apparatus to initiate point-to-point call during shared-channel delivery of broadcast content in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
I339537	Taiwan	Granted	Method and Apparatus to Initiate Point-to-Point Call During Shared-Channel Delivery of Broadcast Content in a Wireless Telephone Network	ATIS.3GPP.25.331V8250-2016
7,146,130	United States	Granted	Wireless Local Access Network System Detection and Selection	ATIS.3GPP.36.300V8120-2010
PI0407770-9	Brazil	Pending	Wireless Local Access Network System Detection and Selection	ATIS.3GPP.36.300V8120-2010
7,778,593	United States	Granted	Wireless local access network system detection and selection	ATIS.3GPP.36.300V8120-2010
8,064,927	United States	Granted	Wireless local access network system detection and selection	ATIS.3GPP.36.300V8120-2010
ZL200480005005.8	China P.R.	Granted	Wireless local access network system detection and selection	ATIS.3GPP.36.300V8120-2010
ZL200810009925.7	China P.R.	Granted	Wireless local access network system detection and selection	ATIS.3GPP.36.300V8120-2010
EP1597869	Germany	Granted	Wireless Local Access Network System Detection and Selection	ATIS.3GPP.36.300V8120-2010
EP1597869	European Patent Convention	Granted	Wireless Local Access Network System Detection and Selection	ATIS.3GPP.36.300V8120-2010
11161495.4	European Patent Convention	Pending	Wireless Local Access Network System Detection and Selection	ATIS.3GPP.36.300V8120-2010
13189665.6	European Patent Convention	Pending	Wireless local access network system detection and selection	ATIS.3GPP.36.300V8120-2010
EP1597869	Great Britain	Granted	Wireless Local Access Network System Detection and Selection	ATIS.3GPP.36.300V8120-2010
224025	India	Granted	Wireless local access network system detection and selection	ATIS.3GPP.36.300V8120-2010
4653070	Japan	Granted	Wireless local access network system detection and selection	ATIS.3GPP.36.300V8120-2010
5399359	Japan	Granted	Wireless local access network system detection and selection	ATIS.3GPP.36.300V8120-2010
10-1044501	Republic of Korea	Granted	Wireless local access network system detection and selection	ATIS.3GPP.36.300V8120-2010
256140	Mexico	Granted	Wireless local access network system detection and selection	ATIS.3GPP.36.300V8120-2010
276178	Mexico	Granted	Wireless local access network system detection and selection	ATIS.3GPP.36.300V8120-2010
7,146,130	United States	Granted	Wireless Local Access Network System Detection and Selection	ATIS.3GPP.36.331V8210-2016
PI0407770-9	Brazil	Pending	Wireless Local Access Network System Detection and Selection	ATIS.3GPP.36.331V8210-2016
7,778,593	United States	Granted	Wireless local access network system detection and selection	ATIS.3GPP.36.331V8210-2016
8,064,927	United States	Granted	Wireless local access network system detection and selection	ATIS.3GPP.36.331V8210-2016
ZL200480005005.8	China P.R.	Granted	Wireless local access network system detection and selection	ATIS.3GPP.36.331V8210-2016
ZL200810009925.7	China P.R.	Granted	Wireless local access network system detection and selection	ATIS.3GPP.36.331V8210-2016
EP1597869	Germany	Granted	Wireless Local Access Network System Detection and Selection	ATIS.3GPP.36.331V8210-2016
EP1597869	European Patent Convention	Granted	Wireless Local Access Network System Detection and Selection	ATIS.3GPP.36.331V8210-2016
11161495.4	European Patent Convention	Pending	Wireless Local Access Network System Detection and Selection	ATIS.3GPP.36.331V8210-2016
13189665.6	European Patent Convention	Pending	Wireless local access network system detection and selection	ATIS.3GPP.36.331V8210-2016
EP1597869	Great Britain	Granted	Wireless Local Access Network System Detection and Selection	ATIS.3GPP.36.331V8210-2016
224025	India	Granted	Wireless local access network system detection and selection	ATIS.3GPP.36.331V8210-2016
4653070	Japan	Granted	Wireless local access network system detection and selection	ATIS.3GPP.36.331V8210-2016
5399359	Japan	Granted	Wireless local access network system detection and selection	ATIS.3GPP.36.331V8210-2016
10-1044501	Republic of Korea	Granted	Wireless local access network system detection and selection	ATIS.3GPP.36.331V8210-2016
256140	Mexico	Granted	Wireless local access network system detection and selection	ATIS.3GPP.36.331V8210-2016
276178	Mexico	Granted	Wireless local access network system detection and selection	ATIS.3GPP.36.331V8210-2016

7,095,725	United States	Granted	Method and Apparatus for Data Transmission on a Reverse Link in a Communication System	ATIS.3GPP.25.321V8170-2014
PI0317471-9	Brazil	Pending	Method and Apparatus for Data Transmission on a Reverse Link in a Communication System	ATIS.3GPP.25.321V8170-2014
ZL200380108677.7	China P.R.	Granted	Method and apparatus for data transmission on a reverse link in a communication system	ATIS.3GPP.25.321V8170-2014
03813752.7	European Patent Convention	Pending	Method and Apparatus for Data Transmission on a Reverse Link in a Communication System	ATIS.3GPP.25.321V8170-2014
ID0019460	Indonesia	Granted	Method and apparatus for data transmission on a reverse link in a communication system	ATIS.3GPP.25.321V8170-2014
220624	India	Granted	Method and apparatus for improving performance on a reverse link	ATIS.3GPP.25.321V8170-2014
4913343	Japan	Granted	Method and apparatus for data transmission on a reverse link in a communication system	ATIS.3GPP.25.321V8170-2014
5021818	Japan	Granted	Method and apparatus for data transmission on a reverse link in a communication system	ATIS.3GPP.25.321V8170-2014
10-1031203	Republic of Korea	Granted	Method and apparatus for data transmission on a reverse link in a communication system	ATIS.3GPP.25.321V8170-2014
254651	Mexico	Granted	Method and apparatus for data transmission on a reverse link in a communication system	ATIS.3GPP.25.321V8170-2014
2342794	Russian Federation	Granted	Method and apparatus for data transmission on a reverse link in a communication system	ATIS.3GPP.25.321V8170-2014
85547	Ukraine	Granted	Method and apparatus for data transmission on a reverse link in a communication system	ATIS.3GPP.25.321V8170-2014
7,062,272	United States	Granted	Method and Apparatus to Track Count of Broadcast Content Recipients in a Wireless Telephone Network	ATIS.3GPP.25.331V8250-2016
2004213997	Australia	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
2009225369	Australia	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
PI0407539-0	Brazil	Pending	Method and Apparatus to Count Broadcast Content Recipients in a Wireless Telephone Network	ATIS.3GPP.25.331V8250-2016
7,409,212	United States	Granted	Method and Apparatus to Track Count of Broadcast Content Recipients in a Wireless Telephone Network	ATIS.3GPP.25.331V8250-2016
2516223	Canada	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
ZL200480007389.7	China P.R.	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
7,251,487	United States	Granted	Method and Apparatus to Track Count of Broadcast Content Recipients in a Wireless Telephone Network	ATIS.3GPP.25.331V8250-2016
7,813,732	United States	Granted	Method and apparatus to track count of broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
EP1595412	Germany	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.331V8250-2016

EP1595412	European Patent Convention	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
10009463.0	European Patent Convention	Pending	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
11109246.0	Hong Kong	Pending	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
EP1595412	Great Britain	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
HK1090228	Hong Kong	Granted	Method and Apparatus to Count Broadcast Content Recipients in a Wireless Telephone Network	ATIS.3GPP.25.331V8250-2016
ID0021577	Indonesia	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
170231	Israel	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
203708	Israel	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
230641	India	Granted	Method and apparatus to track count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
4376898	Japan	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
10-1087523	Republic of Korea	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
256703	Mexico	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
273333	Mexico	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
2346412	Russian Federation	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
I368449	Taiwan	Granted	Method and Apparatus to Track Count of Broadcast Content Recipients in a Wireless Telephone Network	ATIS.3GPP.25.331V8250-2016
91492	Ukraine	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
101955	Ukraine	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.331V8250-2016
7,062,272	United States	Granted	Method and Apparatus to Track Count of Broadcast Content Recipients in a Wireless Telephone Network	ATIS.3GPP.25.346V840-2010
2004213997	Australia	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.346V840-2010
2009225369	Australia	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.346V840-2010
PI0407539-0	Brazil	Pending	Method and Apparatus to Count Broadcast Content Recipients in a Wireless Telephone Network	ATIS.3GPP.25.346V840-2010
7,409,212	United States	Granted	Method and Apparatus to Track Count of Broadcast Content Recipients in a Wireless Telephone Network	ATIS.3GPP.25.346V840-2010

2516223	Canada	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.346V840-2010
ZL200480007389.7	China P.R.	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.346V840-2010
7,251,487	United States	Granted	Method and Apparatus to Track Count of Broadcast Content Recipients in a Wireless Telephone Network	ATIS.3GPP.25.346V840-2010
7,813,732	United States	Granted	Method and apparatus to track count of broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.346V840-2010
EP1595412	Germany	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.346V840-2010
EP1595412	European Patent Convention	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.346V840-2010
10009463.0	European Patent Convention	Pending	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.346V840-2010
11109246.0	Hong Kong	Pending	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.346V840-2010
EP1595412	Great Britain	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.346V840-2010
HK1090228	Hong Kong	Granted	Method and Apparatus to Count Broadcast Content Recipients in a Wireless Telephone Network	ATIS.3GPP.25.346V840-2010
ID0021577	Indonesia	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.346V840-2010
170231	Israel	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.346V840-2010
203708	Israel	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.346V840-2010
230641	India	Granted	Method and apparatus to track count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.346V840-2010
4376898	Japan	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.346V840-2010
10-1087523	Republic of Korea	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.346V840-2010
256703	Mexico	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.346V840-2010
273333	Mexico	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.346V840-2010
2346412	Russian Federation	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.346V840-2010
I368449	Taiwan	Granted	Method and Apparatus to Track Count of Broadcast Content Recipients in a Wireless Telephone Network	ATIS.3GPP.25.346V840-2010
91492	Ukraine	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.346V840-2010
101955	Ukraine	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.25.346V840-2010

7,062,272	United States	Granted	Method and Apparatus to Track Count of Broadcast Content Recipients in a Wireless Telephone Network	ATIS.3GPP.44.060V8170-2014
2004213997	Australia	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.44.060V8170-2014
2009225369	Australia	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.44.060V8170-2014
PI0407539-0	Brazil	Pending	Method and Apparatus to Count Broadcast Content Recipients in a Wireless Telephone Network	ATIS.3GPP.44.060V8170-2014
7,409,212	United States	Granted	Method and Apparatus to Track Count of Broadcast Content Recipients in a Wireless Telephone Network	ATIS.3GPP.44.060V8170-2014
2516223	Canada	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.44.060V8170-2014
ZL200480007389.7	China P.R.	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.44.060V8170-2014
7,251,487	United States	Granted	Method and Apparatus to Track Count of Broadcast Content Recipients in a Wireless Telephone Network	ATIS.3GPP.44.060V8170-2014
7,813,732	United States	Granted	Method and apparatus to track count of broadcast content recipients in a wireless telephone network	ATIS.3GPP.44.060V8170-2014
EP1595412	Germany	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.44.060V8170-2014
EP1595412	European Patent Convention	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.44.060V8170-2014
10009463.0	European Patent Convention	Pending	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.44.060V8170-2014
11109246.0	Hong Kong	Pending	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.44.060V8170-2014
EP1595412	Great Britain	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.44.060V8170-2014
HK1090228	Hong Kong	Granted	Method and Apparatus to Count Broadcast Content Recipients in a Wireless Telephone Network	ATIS.3GPP.44.060V8170-2014
ID0021577	Indonesia	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.44.060V8170-2014
170231	Israel	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.44.060V8170-2014
203708	Israel	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.44.060V8170-2014
230641	India	Granted	Method and apparatus to track count broadcast content recipients in a wireless telephone network	ATIS.3GPP.44.060V8170-2014
4376898	Japan	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.44.060V8170-2014
10-1087523	Republic of Korea	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.44.060V8170-2014
256703	Mexico	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.44.060V8170-2014

273333	Mexico	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.44.060V8170-2014
2346412	Russian Federation	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.44.060V8170-2014
1368449	Taiwan	Granted	Method and Apparatus to Track Count of Broadcast Content Recipients in a Wireless Telephone Network	ATIS.3GPP.44.060V8170-2014
91492	Ukraine	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.44.060V8170-2014
101955	Ukraine	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.44.060V8170-2014
7,505,780	United States	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
EP1595414	Austria	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
2004214794	Australia	Pending	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
2010201396	Australia	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
EP1595414	Belgium	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
PI0407545-5	Brazil	Pending	Outer-Loop Power Control for Wireless Communication Systems	ATIS.3GPP.25.321V8170-2014
2516231	Canada	Granted	Outer-Loop Power Control for Wireless Communication Systems	ATIS.3GPP.25.321V8170-2014
EP1595414	Switzerland	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
ZL200480007387.8	China P.R.	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
EP1595414	Germany	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
EP1595414	Denmark	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
EP1595414	European Patent Convention	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
EP1595414	Spain	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
EP1595414	Finland	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
EP1595414	France	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
EP1595414	Great Britain	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
EP1595414	Greece	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
EP1595414	Hungary	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
EP1595414	Ireland	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
170228	Israel	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
233724	India	Granted	A method for controlling power in a wireless communication system having multiple reverse-link communication channels	ATIS.3GPP.25.321V8170-2014
EP1595414	Italy	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
4694470	Japan	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
10-1022679	Republic of Korea	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
260532	Mexico	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
EP1595414	Netherlands	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
EP1595414	Portugal	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
EP1595414	Romania	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
2005129080	Russian Federation	Pending	Outer-Loop Power Control for Wireless Communication Systems	ATIS.3GPP.25.321V8170-2014
EP1595414	Sweden	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014

I375479	Taiwan	Granted	Outer-loop power control for wireless communication systems	ATIS.3GPP.25.321V8170-2014
7,155,236	United States	Granted	Scheduled and Autonomous Transmission and Acknowledgement	ATIS.3GPP.25.321V8170-2014
2004213994	Australia	Pending	Scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.25.321V8170-2014
2010201681	Australia	Granted	Scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.25.321V8170-2014
PI0407571-4	Brazil	Pending	Scheduled and Autonomous Transmission and Acknowledgement	ATIS.3GPP.25.321V8170-2014
2516296	Canada	Granted	Scheduled and Autonomous Transmission and Acknowledgement	ATIS.3GPP.25.321V8170-2014
ZL200480009878.6	China P.R.	Granted	Method, apparatus and system for scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.25.321V8170-2014
ZL200910222199.1	China P.R.	Granted	Scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.25.321V8170-2014
10111749.9	Hong Kong	Pending	Scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.25.321V8170-2014
HK1087265	Hong Kong	Granted	Method, Apparatus and System for Scheduled and Autonomous Transmission and Acknowledgement	ATIS.3GPP.25.321V8170-2014
8,526,966	United States	Granted	Scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.25.321V8170-2014
8,977,283	United States	Granted	Scheduled and Autonomous Transmission and Acknowledgement	ATIS.3GPP.25.321V8170-2014
04712339.3	European Patent Convention	Pending	Scheduled and Autonomous Transmission and Acknowledgement	ATIS.3GPP.25.321V8170-2014
10179019.4	European Patent Convention	Pending	Scheduled and Autonomous Transmission and Acknowledgement	ATIS.3GPP.25.321V8170-2014
ID0020872	Indonesia	Granted	Scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.25.321V8170-2014
IDP0031409	Indonesia	Granted	Scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.25.321V8170-2014
170254	Israel	Granted	Scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.25.321V8170-2014
10-1070208	Republic of Korea	Granted	Scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.25.321V8170-2014
258352	Mexico	Granted	Scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.25.321V8170-2014
303174	Mexico	Granted	Scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.25.321V8170-2014
2368106	Russian Federation	Granted	Scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.25.321V8170-2014
2523359	Russian Federation	Granted	Scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.25.321V8170-2014
I394381	Taiwan	Granted	Scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.25.321V8170-2014
86761	Ukraine	Granted	Scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.25.321V8170-2014
8,694,869	United States	Granted	Methods for forward error correction coding above a radio link control layer and related apparatus	ATIS.3GPP.25.322V890-2012
PI0413697-7	Brazil	Pending	Methods for Forward Error correction Coding Above a Radio Link Control Layer and Related Apparatus	ATIS.3GPP.25.322V890-2012
2535899	Canada	Granted	Methods for Forward Error correction Coding Above a Radio Link Control Layer and Related Apparatus	ATIS.3GPP.25.322V890-2012
ZL200480028696.3	China P.R.	Granted	Method for forward error correction coding above a radio link control layer and related apparatus	ATIS.3GPP.25.322V890-2012
EP1661283	Germany	Granted	Methods for Forward Error correction Coding Above a Radio Link Control Layer and Related Apparatus	ATIS.3GPP.25.322V890-2012
EP1661283	European Patent Convention	Granted	Methods for Forward Error correction Coding Above a Radio Link Control Layer and Related Apparatus	ATIS.3GPP.25.322V890-2012
EP1661283	Great Britain	Granted	Methods for Forward Error correction Coding Above a Radio Link Control Layer and Related Apparatus	ATIS.3GPP.25.322V890-2012
248296	India	Granted	Methods and system for communicating information blocks	ATIS.3GPP.25.322V890-2012

3357/CHENP/2009	India	Pending	Methods for forward error correction coding above a radio link control layer and related apparatus	ATIS.3GPP.25.322V890-2012
4833844	Japan	Granted	Methods for forward error correction coding above a radio link control layer and related apparatus	ATIS.3GPP.25.322V890-2012
5180345	Japan	Granted	Methods for forward error correction coding above a radio link control layer and related apparatus	ATIS.3GPP.25.322V890-2012
10-1102794	Republic of Korea	Granted	Methods for forward error correction coding above a radio link control layer and related apparatus	ATIS.3GPP.25.322V890-2012
271298	Mexico	Granted	Methods for forward error correction coding above a radio link control layer and related apparatus	ATIS.3GPP.25.322V890-2012
289318	Mexico	Granted	Method and seamless delivery of broadcast and multicast content across cell borders and/or between different transmission schemes and related apparatus	ATIS.3GPP.25.322V890-2012
I358921	Taiwan	Granted	Methods for forward error correction coding above a radio link control layer and related apparatus	ATIS.3GPP.25.322V890-2012
8,694,869	United States	Granted	Methods for forward error correction coding above a radio link control layer and related apparatus	ATIS.3GPP.25.331V8250-2016
PI0413697-7	Brazil	Pending	Methods for Forward Error correction Coding Above a Radio Link Control Layer and Related Apparatus	ATIS.3GPP.25.331V8250-2016
2535899	Canada	Granted	Methods for Forward Error correction Coding Above a Radio Link Control Layer and Related Apparatus	ATIS.3GPP.25.331V8250-2016
ZL200480028696.3	China P.R.	Granted	Method for forward error correction coding above a radio link control layer and related apparatus	ATIS.3GPP.25.331V8250-2016
EP1661283	Germany	Granted	Methods for Forward Error correction Coding Above a Radio Link Control Layer and Related Apparatus	ATIS.3GPP.25.331V8250-2016
EP1661283	European Patent Convention	Granted	Methods for Forward Error correction Coding Above a Radio Link Control Layer and Related Apparatus	ATIS.3GPP.25.331V8250-2016
EP1661283	Great Britain	Granted	Methods for Forward Error correction Coding Above a Radio Link Control Layer and Related Apparatus	ATIS.3GPP.25.331V8250-2016
248296	India	Granted	Methods and system for communicating information blocks	ATIS.3GPP.25.331V8250-2016
3357/CHENP/2009	India	Pending	Methods for forward error correction coding above a radio link control layer and related apparatus	ATIS.3GPP.25.331V8250-2016
4833844	Japan	Granted	Methods for forward error correction coding above a radio link control layer and related apparatus	ATIS.3GPP.25.331V8250-2016
5180345	Japan	Granted	Methods for forward error correction coding above a radio link control layer and related apparatus	ATIS.3GPP.25.331V8250-2016
10-1102794	Republic of Korea	Granted	Methods for forward error correction coding above a radio link control layer and related apparatus	ATIS.3GPP.25.331V8250-2016
271298	Mexico	Granted	Methods for forward error correction coding above a radio link control layer and related apparatus	ATIS.3GPP.25.331V8250-2016
289318	Mexico	Granted	Method and seamless delivery of broadcast and multicast content across cell borders and/or between different transmission schemes and related apparatus	ATIS.3GPP.25.331V8250-2016

I358921	Taiwan	Granted	Methods for forward error correction coding above a radio link control layer and related apparatus	ATIS.3GPP.25.331V8250-2016
8,694,869	United States	Granted	Methods for forward error correction coding above a radio link control layer and related apparatus	ATIS.3GPP.25.346V840-2010
PI0413697-7	Brazil	Pending	Methods for Forward Error correction Coding Above a Radio Link Control Layer and Related Apparatus	ATIS.3GPP.25.346V840-2010
2535899	Canada	Granted	Methods for Forward Error correction Coding Above a Radio Link Control Layer and Related Apparatus	ATIS.3GPP.25.346V840-2010
ZL200480028696.3	China P.R.	Granted	Method for forward error correction coding above a radio link control layer and related apparatus	ATIS.3GPP.25.346V840-2010
EP1661283	Germany	Granted	Methods for Forward Error correction Coding Above a Radio Link Control Layer and Related Apparatus	ATIS.3GPP.25.346V840-2010
EP1661283	European Patent Convention	Granted	Methods for Forward Error correction Coding Above a Radio Link Control Layer and Related Apparatus	ATIS.3GPP.25.346V840-2010
EP1661283	Great Britain	Granted	Methods for Forward Error correction Coding Above a Radio Link Control Layer and Related Apparatus	ATIS.3GPP.25.346V840-2010
248296	India	Granted	Methods and system for communicating information blocks	ATIS.3GPP.25.346V840-2010
3357/CHENP/2009	India	Pending	Methods for forward error correction coding above a radio link control layer and related apparatus	ATIS.3GPP.25.346V840-2010
4833844	Japan	Granted	Methods for forward error correction coding above a radio link control layer and related apparatus	ATIS.3GPP.25.346V840-2010
5180345	Japan	Granted	Methods for forward error correction coding above a radio link control layer and related apparatus	ATIS.3GPP.25.346V840-2010
10-1102794	Republic of Korea	Granted	Methods for forward error correction coding above a radio link control layer and related apparatus	ATIS.3GPP.25.346V840-2010
271298	Mexico	Granted	Methods for forward error correction coding above a radio link control cayer and related apparatus	ATIS.3GPP.25.346V840-2010
289318	Mexico	Granted	Method and seamless delivery of broadcast and multicast content across cell borders and/or between different transmission schemes and related apparatus	ATIS.3GPP.25.346V840-2010
I358921	Taiwan	Granted	Methods for forward error correction coding above a radio link control layer and related apparatus	ATIS.3GPP.25.346V840-2010
8,804,761	United States	Granted	Methods for seamless delivery of broadcast and multicast content across cell borders and/or between different transmission schemes and related apparatus	ATIS.3GPP.25.322V890-2012
PI0413696-9	Brazil	Pending	Methods for Seamless Delivery of Broadcast and Multicast Content Across Cell Borders and/or Between Different Transmission Schemes and Related Apparatus	ATIS.3GPP.25.322V890-2012
ZL200480028692.5	China P.R.	Granted	Methods for seamless delivery of broadcast and multicast content across cell borders and/or between different transmission schemes and related apparatus	ATIS.3GPP.25.322V890-2012
04781830.7	European Patent Convention	Pending	Methods for Seamless Delivery of Broadcast and Multicast Content Across Cell Borders and/or Between Different Transmission Schemes and Related Apparatus	ATIS.3GPP.25.322V890-2012

241995	India	Granted	A methods of communicating information over a channel	ATIS.3GPP.25.322V890-2012
5631903	Japan	Granted	Methods for seamless delivery of broadcast and multicast content across cell borders and/or between different transmission schemes and related apparatus	ATIS.3GPP.25.322V890-2012
5980838	Japan	Granted	Methods for seamless delivery of broadcast and multicast content across cell borders and/or between different transmission schemes and related apparatus	ATIS.3GPP.25.322V890-2012
10-1112433	Republic of Korea	Granted	Methods for seamless delivery of broadcast and multicast content across cell borders and/or between different transmission schemes and related apparatus	ATIS.3GPP.25.322V890-2012
270984	Mexico	Granted	Methods for seamless delivery of broadcast and multicast content across cell borders and/or between different transmission schemes and related apparatus	ATIS.3GPP.25.322V890-2012
I392266	Taiwan	Granted	Methods for Seamless Delivery of Broadcast and Multicast Content Across Cell Borders and/or Between Different Transmission Schemes and Related Apparatus	ATIS.3GPP.25.322V890-2012
8,804,761	United States	Granted	Methods for seamless delivery of broadcast and multicast content across cell borders and/or between different transmission schemes and related apparatus	ATIS.3GPP.25.331V8250-2016
PI0413696-9	Brazil	Pending	Methods for Seamless Delivery of Broadcast and Multicast Content Across Cell Borders and/or Between Different Transmission Schemes and Related Apparatus	ATIS.3GPP.25.331V8250-2016
ZL200480028692.5	China P.R.	Granted	Methods for seamless delivery of broadcast and multicast content across cell borders and/or between different transmission schemes and related apparatus	ATIS.3GPP.25.331V8250-2016
04781830.7	European Patent Convention	Pending	Methods for Seamless Delivery of Broadcast and Multicast Content Across Cell Borders and/or Between Different Transmission Schemes and Related Apparatus	ATIS.3GPP.25.331V8250-2016
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5980838	Japan	Granted	Methods for seamless delivery of broadcast and multicast content across cell borders and/or between different transmission schemes and related apparatus	ATIS.3GPP.25.331V8250-2016
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I392266	Taiwan	Granted	Methods for Seamless Delivery of Broadcast and Multicast Content Across Cell Borders and/or Between Different Transmission Schemes and Related Apparatus	ATIS.3GPP.25.331V8250-2016

8,804,761	United States	Granted	Methods for seamless delivery of broadcast and multicast content across cell borders and/or between different transmission schemes and related apparatus	ATIS.3GPP.25.346V840-2010
PI0413696-9	Brazil	Pending	Methods for Seamless Delivery of Broadcast and Multicast Content Across Cell Borders and/or Between Different Transmission Schemes and Related Apparatus	ATIS.3GPP.25.346V840-2010
ZL200480028692.5	China P.R.	Granted	Methods for seamless delivery of broadcast and multicast content across cell borders and/or between different transmission schemes and related apparatus	ATIS.3GPP.25.346V840-2010
04781830.7	European Patent Convention	Pending	Methods for Seamless Delivery of Broadcast and Multicast Content Across Cell Borders and/or Between Different Transmission Schemes and Related Apparatus	ATIS.3GPP.25.346V840-2010
241995	India	Granted	A methods of communicating information over a channel	ATIS.3GPP.25.346V840-2010
5631903	Japan	Granted	Methods for seamless delivery of broadcast and multicast content across cell borders and/or between different transmission schemes and related apparatus	ATIS.3GPP.25.346V840-2010
5980838	Japan	Granted	Methods for seamless delivery of broadcast and multicast content across cell borders and/or between different transmission schemes and related apparatus	ATIS.3GPP.25.346V840-2010
10-1112433	Republic of Korea	Granted	Methods for seamless delivery of broadcast and multicast content across cell borders and/or between different transmission schemes and related apparatus	ATIS.3GPP.25.346V840-2010
270984	Mexico	Granted	Methods for seamless delivery of broadcast and multicast content across cell borders and/or between different transmission schemes and related apparatus	ATIS.3GPP.25.346V840-2010
I392266	Taiwan	Granted	Methods for Seamless Delivery of Broadcast and Multicast Content Across Cell Borders and/or Between Different Transmission Schemes and Related Apparatus	ATIS.3GPP.25.346V840-2010
6,970,437	United States	Granted	Reverse link differentiated services for a multiflow communications system using autonomous allocation	ATIS.3GPP.25.321V8170-2014
EP1981177	Austria	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.321V8170-2014
EP1981177	Belgium	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.321V8170-2014
PI0412674-2	Brazil	Pending	Method for Transmission Power Control Based on Evaluation of a Reverse Activity Bit and Data Flow Specific Upward/Downward Ramping Functions, and Corresponding Wireless Access Terminal	ATIS.3GPP.25.321V8170-2014
PI0419289-3	Brazil	Pending	Method for Transmission Power Control Based on Evaluation of a Reverse Activity Bit and Data Flow Specific Upward/Downward Ramping Functions, and Corresponding Wireless Access Terminal	ATIS.3GPP.25.321V8170-2014
EP1981177	Switzerland	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.321V8170-2014

ZL200480024381.1	China P.R.	Granted	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.321V8170-2014
ZL200710102286.4	China P.R.	Granted	Method and means of transmitting a packet	ATIS.3GPP.25.321V8170-2014
EP1649642	Germany	Granted	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.321V8170-2014
EP1826917	Germany	Granted	Methods of transmitting a packet and corresponding access terminal and means	ATIS.3GPP.25.321V8170-2014
EP1981177	Germany	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.321V8170-2014
EP1981177	Denmark	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.321V8170-2014
EP1649642	European Patent Convention	Granted	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.321V8170-2014
EP1826917	European Patent Convention	Granted	Methods of transmitting a packet and corresponding access terminal and means	ATIS.3GPP.25.321V8170-2014
EP1981177	European Patent Convention	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.321V8170-2014
11153878.1	European Patent Convention	Pending	Reverse link differentiated services for a multiflow communications system using autonomous allocation	ATIS.3GPP.25.321V8170-2014
EP1981177	Spain	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.321V8170-2014
EP1981177	Finland	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.321V8170-2014
EP1981177	France	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.321V8170-2014
EP1649642	Great Britain	Granted	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.321V8170-2014
EP1826917	Great Britain	Granted	Methods of transmitting a packet and corresponding access terminal and means	ATIS.3GPP.25.321V8170-2014
EP1981177	Great Britain	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.321V8170-2014
EP1981177	Greece	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.321V8170-2014
EP1981177	Hungary	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.321V8170-2014
ID0022197	Indonesia	Granted	Reverse link differentiated services for a multiflow communications system using autoumous allocation	ATIS.3GPP.25.321V8170-2014
IDP0025099	Indonesia	Granted	Reverse link differentiated services for a multiflow communications system using autoumous allocation	ATIS.3GPP.25.321V8170-2014

EP1981177	Ireland	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.321V8170-2014
230663	India	Granted	A method of implementation in an access terminal	ATIS.3GPP.25.321V8170-2014
271351	India	Granted	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.321V8170-2014
EP1981177	Italy	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.321V8170-2014
4402113	Japan	Granted	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.321V8170-2014
4699421	Japan	Granted	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.321V8170-2014
5329573	Japan	Granted	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.321V8170-2014
10-1099186	Republic of Korea	Granted	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.321V8170-2014
10-1099157	Republic of Korea	Granted	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.321V8170-2014
263580	Mexico	Granted	Method for Transmission Power Control Based on Evaluation of a Reverse Activity Bit and Data Flow Specific Upward/Downward Ramping Functions, and Corresponding Wireless Access Terminal	ATIS.3GPP.25.321V8170-2014
PA/a/2007/008197	Mexico	Pending	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.321V8170-2014
EP1981177	Netherlands	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.321V8170-2014
EP1981177	Poland	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.321V8170-2014
EP1981177	Portugal	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.321V8170-2014
EP1981177	Romania	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.321V8170-2014
2372738	Russian Federation	Granted	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.321V8170-2014
2007113960	Russian Federation	Pending	Method for Transmission Power Control Based on Evaluation of a Reverse Activity Bit and Data Flow Specific Upward/Downward Ramping Functions, and Corresponding Wireless Access Terminal	ATIS.3GPP.25.321V8170-2014

EP1981177	Sweden	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.321V8170-2014
86203	Ukraine	Granted	Terminal for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions	ATIS.3GPP.25.321V8170-2014
100889	Ukraine	Granted	Terminal for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions	ATIS.3GPP.25.321V8170-2014
7625	Vietnam	Granted	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.321V8170-2014
6,970,437	United States	Granted	Reverse link differentiated services for a multiflow communications system using autonomous allocation	ATIS.3GPP.25.322V890-2012
EP1981177	Austria	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.322V890-2012
EP1981177	Belgium	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.322V890-2012
PI0412674-2	Brazil	Pending	Method for Transmission Power Control Based on Evaluation of a Reverse Activity Bit and Data Flow Specific Upward/Downward Ramping Functions, and Corresponding Wireless Access Terminal	ATIS.3GPP.25.322V890-2012
PI0419289-3	Brazil	Pending	Method for Transmission Power Control Based on Evaluation of a Reverse Activity Bit and Data Flow Specific Upward/Downward Ramping Functions, and Corresponding Wireless Access Terminal	ATIS.3GPP.25.322V890-2012
EP1981177	Switzerland	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.322V890-2012
ZL200480024381.1	China P.R.	Granted	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.322V890-2012
ZL200710102286.4	China P.R.	Granted	Method and means of transmitting a packet	ATIS.3GPP.25.322V890-2012
EP1649642	Germany	Granted	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.322V890-2012
EP1826917	Germany	Granted	Methods of transmitting a packet and corresponding access terminal and means	ATIS.3GPP.25.322V890-2012
EP1981177	Germany	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.322V890-2012
EP1981177	Denmark	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.322V890-2012
EP1649642	European Patent Convention	Granted	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.322V890-2012
EP1826917	European Patent Convention	Granted	Methods of transmitting a packet and corresponding access terminal and means	ATIS.3GPP.25.322V890-2012

EP1981177	European Patent Convention	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.322V890-2012
11153878.1	European Patent Convention	Pending	Reverse link differentiated services for a multiflow communications system using autonomous allocation	ATIS.3GPP.25.322V890-2012
EP1981177	Spain	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.322V890-2012
EP1981177	Finland	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.322V890-2012
EP1981177	France	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.322V890-2012
EP1649642	Great Britain	Granted	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.322V890-2012
EP1826917	Great Britain	Granted	Methods of transmitting a packet and corresponding access terminal and means	ATIS.3GPP.25.322V890-2012
EP1981177	Great Britain	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.322V890-2012
EP1981177	Greece	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.322V890-2012
EP1981177	Hungary	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.322V890-2012
ID0022197	Indonesia	Granted	Reverse link differentiated services for a multiflow communications system using autonomous allocation	ATIS.3GPP.25.322V890-2012
IDP0025099	Indonesia	Granted	Reverse link differentiated services for a multiflow communications system using autonomous allocation	ATIS.3GPP.25.322V890-2012
EP1981177	Ireland	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.322V890-2012
230663	India	Granted	A method of implementation in an access terminal	ATIS.3GPP.25.322V890-2012
271351	India	Granted	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.322V890-2012
EP1981177	Italy	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.322V890-2012
4402113	Japan	Granted	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.322V890-2012
4699421	Japan	Granted	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.322V890-2012
5329573	Japan	Granted	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.322V890-2012

10-1099186	Republic of Korea	Granted	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.322V890-2012
10-1099157	Republic of Korea	Granted	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.322V890-2012
263580	Mexico	Granted	Method for Transmission Power Control Based on Evaluation of a Reverse Activity Bit and Data Flow Specific Upward/Downward Ramping Functions, and Corresponding Wireless Access Terminal	ATIS.3GPP.25.322V890-2012
PA/a/2007/008197	Mexico	Pending	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.322V890-2012
EP1981177	Netherlands	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.322V890-2012
EP1981177	Poland	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.322V890-2012
EP1981177	Portugal	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.322V890-2012
EP1981177	Romania	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.322V890-2012
2372738	Russian Federation	Granted	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.322V890-2012
2007113960	Russian Federation	Pending	Method for Transmission Power Control Based on Evaluation of a Reverse Activity Bit and Data Flow Specific Upward/Downward Ramping Functions, and Corresponding Wireless Access Terminal	ATIS.3GPP.25.322V890-2012
EP1981177	Sweden	Granted	Method of obtaining current power allocation for flows on an access terminal, and corresponding means	ATIS.3GPP.25.322V890-2012
86203	Ukraine	Granted	Terminal for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions	ATIS.3GPP.25.322V890-2012
100889	Ukraine	Granted	Terminal for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions	ATIS.3GPP.25.322V890-2012
7625	Vietnam	Granted	Method for transmission power control based on evaluation of a reverse activity bit and data flow specific upward/downward ramping functions, and corresponding wireless access terminal	ATIS.3GPP.25.322V890-2012
7,184,792	United States	Granted	Delayed Data Transmission in a Wireless Communication System After Physical Layer Reconfiguration	ATIS.3GPP.25.331V8250-2016
ZL200580010126.6	China P.R.	Granted	Delayed data transmission in a wireless communication system after physical layer reconfiguration	ATIS.3GPP.25.331V8250-2016
222001	India	Granted	Delayed data transmission in a wireless communication system after physical layer reconfiguration	ATIS.3GPP.25.331V8250-2016
261376	Mexico	Granted	Delayed data transmission in a wireless communication system after physical layer reconfiguration	ATIS.3GPP.25.331V8250-2016
7,912,485	United States	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.25.331V8250-2016

2004271649	Australia	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.25.331V8250-2016
PI0406400-3	Brazil	Pending	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.25.331V8250-2016
8,644,862	United States	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.25.331V8250-2016
2504537	Canada	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.25.331V8250-2016
ZL200480001400.9	China P.R.	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.25.331V8250-2016
EP1665857	European Patent Convention	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.25.331V8250-2016
10009638.7	European Patent Convention	Pending	Method and system for signaling in broadcast communication system	ATIS.3GPP.25.331V8250-2016
11108028.6	Hong Kong	Pending	Method and system for signaling in broadcast communication system	ATIS.3GPP.25.331V8250-2016
HK1097679	Hong Kong	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.25.331V8250-2016
168020	Israel	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.25.331V8250-2016
237531	India	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.25.331V8250-2016
4546475	Japan	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.25.331V8250-2016
4856259	Japan	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.25.331V8250-2016
5562915	Japan	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.25.331V8250-2016
10-1148801	Republic of Korea	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.25.331V8250-2016
10-1205757	Republic of Korea	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.25.331V8250-2016
277354	Mexico	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.25.331V8250-2016
2371885	Russian Federation	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.25.331V8250-2016
200504393	Ukraine	Pending	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.25.331V8250-2016
7,194,042	United States	Granted	Data Transmission with Spatial Spreading in a MIMO Communication System	ATIS.3GPP.36.211V1240-2015
2005207380	Australia	Granted	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015
2009200283	Australia	Granted	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015
PI0506821-5	Brazil	Pending	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015
2553322	Canada	Granted	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015
ZL200580008015.1	China P.R.	Granted	Method and apparatus for transmitting and receiving data in a wireless MIMO communication system	ATIS.3GPP.36.211V1240-2015
201210113094.4	China P.R.	Pending	Method and apparatus for transmitting and receiving data in a wireless MIMO communication system	ATIS.3GPP.36.211V1240-2015
7,336,746	United States	Granted	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015
7,764,754	United States	Granted	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015
8,325,844	United States	Granted	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015
05711350.8	European Patent Convention	Pending	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015
HK1098890	Hong Kong	Granted	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015
176768	Israel	Granted	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015
259513	India	Granted	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015
6867/DELNP/2009	India	Pending	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015
5083/DELNP/2010	India	Pending	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015
4668928	Japan	Granted	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015
10-0853641	Republic of Korea	Granted	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015
265010	Mexico	Granted	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015
291622	Mexico	Granted	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015

1-2006-501349	Philippines	Granted	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015
1-2009-501059	Philippines	Granted	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015
2369010	Russian Federation	Granted	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015
2503129	Russian Federation	Granted	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015
124038	Singapore	Granted	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015
143262	Singapore	Granted	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015
I373935	Taiwan	Granted	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015
7962	Vietnam	Granted	Data transmission with spatial spreading in a MIMO communication system	ATIS.3GPP.36.211V1240-2015
8,363,697	United States	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
EP1658688	Austria	Granted	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
EP1788725	Austria	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
2005207338	Australia	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
2010202417	Australia	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
EP1788725	Belgium	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
10934605	Bulgaria	Pending	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
PI0504407-3	Brazil	Pending	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
2525239	Canada	Granted	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
EP1658688	Switzerland	Granted	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
EP1788725	Switzerland	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
ZL200580000366.8	China P.R.	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
ZL201110278358.7	China P.R.	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
12106092.0	Hong Kong	Pending	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
ZL201110278781.7	China P.R.	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
12106093.9	Hong Kong	Pending	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
ZL201110278782.1	China P.R.	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
12106094.8	Hong Kong	Pending	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
PV2005-0704	Czech Republic	Pending	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
8,737,538	United States	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
8,619,835	United States	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
8,582,621	United States	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
EP1658688	Germany	Granted	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
EP1788725	Germany	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
EP1658688	Denmark	Granted	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
EP1788725	Denmark	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
EP1658688	European Patent Convention	Granted	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
EP1788725	European Patent Convention	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
15160157.2	European Patent Convention	Pending	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
15160168.9	European Patent Convention	Pending	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
EP1658688	Spain	Granted	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
EP1788725	Spain	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010

EP1658688	Finland	Granted	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
EP1788725	Finland	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
EP1658688	France	Granted	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
EP1788725	France	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
EP1658688	Great Britain	Granted	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
EP1788725	Great Britain	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
EP1788725	Greece	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
EP1658688	Hungary	Granted	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
EP1788725	Hungary	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
IDP0029232	Indonesia	Granted	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
EP1788725	Ireland	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
171796	Israel	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
205515	Israel	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
255253	India	Granted	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
EP1658688	Italy	Granted	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
EP1788725	Italy	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
4777907	Japan	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
5259684	Japan	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
5426003	Japan	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
5543568	Japan	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
10-1143285	Republic of Korea	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
10-1129205	Republic of Korea	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
10-1118490	Republic of Korea	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
EP1658688	Liechtenstein	Granted	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
277047	Mexico	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
307743	Mexico	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
EP1788725	Netherlands	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
P-380449	Poland	Pending	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
EP1658688	Portugal	Granted	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
EP1788725	Portugal	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
a/2005-00978	Romania	Pending	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
EP1788725	Romania	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
2379840	Russian Federation	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
EP1658688	Sweden	Granted	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
EP1788725	Sweden	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
116983	Singapore	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
I367640	Taiwan	Granted	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
I513204	Taiwan	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
95437	Ukraine	Granted	Synchronized broadcast/multicast communication	ATIS.3GPP.25.346V840-2010
1-2006-00101	Vietnam	Pending	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010

2005/09101	South Africa	Granted	Synchronized Broadcast/Multicast Communication	ATIS.3GPP.25.346V840-2010
PI0507416-9	Brazil	Pending	Method and apparatus for sending signaling for multicast and broadcast services	ATIS.3GPP.25.331V8250-2016
4468384	Japan	Granted	Method and apparatus for sending signaling for multicast and broadcast services	ATIS.3GPP.25.331V8250-2016
EP1733486	Austria	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
EP1733486	Belgium	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
PI0509701-0	Brazil	Pending	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
2562055	Canada	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
EP1733486	Switzerland	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
ZL200580018618.X	China P.R.	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
EP1733486	Germany	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
EP1733486	Denmark	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
EP1733486	European Patent Convention	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
10176862.0	European Patent Convention	Pending	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
EP1733486	Spain	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
EP1733486	Finland	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
EP1733486	France	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
EP1733486	Great Britain	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
EP1733486	Greece	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
EP1733486	Hungary	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
EP1733486	Ireland	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
258934	India	Granted	A method for generating steering matrices used for spatial processing in a wireless multi-antenna communication system and an apparatus thereof	ATIS.3GPP.36.211V1240-2015
EP1733486	Italy	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015

5139473	Japan	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna	ATIS.3GPP.36.211V1240-2015
10-0856172	Republic of Korea	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
272545	Mexico	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
EP1733486	Netherlands	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
1-2006-501989	Philippines	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
EP1733486	Poland	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
EP1733486	Portugal	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
EP1733486	Romania	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
2351070	Russian Federation	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
EP1733486	Sweden	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
I393374	Taiwan	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna Communication System	ATIS.3GPP.36.211V1240-2015
8063	Vietnam	Granted	Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system	ATIS.3GPP.36.211V1240-2015
7,912,457	United States	Granted	Methods and apparatus for creation and transport of multimedia content flows	ATIS.3GPP.29.061V8120-2014
PI0510040-2	Brazil	Pending	Methods and apparatus for creation and transport of multimedia content flows	ATIS.3GPP.29.061V8120-2014
ZL200580020403.1	China P.R.	Granted	Methods and apparatus for creation and transport of multimedia content flows	ATIS.3GPP.29.061V8120-2014
201210376241.7	China P.R.	Pending	Methods and apparatus for creation and transport of multimedia content flows	ATIS.3GPP.29.061V8120-2014
8,472,930	United States	Granted	Methods and apparatus for creation and transport of multimedia content flows	ATIS.3GPP.29.061V8120-2014
EP1738558	Germany	Granted	Methods and Apparatus for Creation and Transport of Multimedia Content Flows	ATIS.3GPP.29.061V8120-2014
EP2259550	Germany	Granted	Method for scheduled transport of multimedia content flows	ATIS.3GPP.29.061V8120-2014
EP1738558	European Patent Convention	Granted	Methods and Apparatus for Creation and Transport of Multimedia Content Flows	ATIS.3GPP.29.061V8120-2014
EP2259550	European Patent Convention	Granted	Method for scheduled transport of multimedia content flows	ATIS.3GPP.29.061V8120-2014
EP1738558	Spain	Granted	Methods and Apparatus for Creation and Transport of Multimedia Content Flows	ATIS.3GPP.29.061V8120-2014
EP2259550	Spain	Granted	Method for scheduled transport of multimedia content flows	ATIS.3GPP.29.061V8120-2014
EP1738558	France	Granted	Methods and Apparatus for Creation and Transport of Multimedia Content Flows	ATIS.3GPP.29.061V8120-2014
EP2259550	France	Granted	Method for scheduled transport of multimedia content flows	ATIS.3GPP.29.061V8120-2014
EP1738558	Great Britain	Granted	Methods and Apparatus for Creation and Transport of Multimedia Content Flows	ATIS.3GPP.29.061V8120-2014

EP2259550	Great Britain	Granted	Method for scheduled transport of multimedia content flows	ATIS.3GPP.29.061V8120-2014
EP1738558	Italy	Granted	Methods and Apparatus for Creation and Transport of Multimedia Content Flows	ATIS.3GPP.29.061V8120-2014
EP2259550	Italy	Granted	Method for scheduled transport of multimedia content flows	ATIS.3GPP.29.061V8120-2014
4870662	Japan	Granted	Methods and Apparatus for Creation and Transport of Multimedia Content Flows	ATIS.3GPP.29.061V8120-2014
5539164	Japan	Granted	Methods and Apparatus for Creation of Multimedia Content flows and Transport of Multimedia	ATIS.3GPP.29.061V8120-2014
5502965	Japan	Granted	Methods and apparatus for creation of multimedia content flows and transport of multimedia	ATIS.3GPP.29.061V8120-2014
5607199	Japan	Granted	Methods and apparatus for creation of multimedia content flows and transport of multimedia	ATIS.3GPP.29.061V8120-2014
10-0984265	Republic of Korea	Granted	Methods and apparatus for creation and transport of multimedia content flows	ATIS.3GPP.29.061V8120-2014
272480	Mexico	Granted	Methods and apparatus for creation and transport of multimedia content flows	ATIS.3GPP.29.061V8120-2014
EP1738558	Netherlands	Granted	Methods and Apparatus for Creation and Transport of Multimedia Content Flows	ATIS.3GPP.29.061V8120-2014
EP2259550	Netherlands	Granted	Method for scheduled transport of multimedia content flows	ATIS.3GPP.29.061V8120-2014
1-2006-502050	Philippines	Pending	Methods and Apparatus for Creation and Transport of Multimedia Content Flows	ATIS.3GPP.29.061V8120-2014
2354068	Russian Federation	Granted	Methods and apparatus for creation and transport of multimedia content flows	ATIS.3GPP.29.061V8120-2014
1-2006-01916	Vietnam	Pending	Methods and Apparatus for Creation and Transport of Multimedia Content Flows	ATIS.3GPP.29.061V8120-2014
7,747,258	United States	Granted	Method and apparatus for performing position determination with pre-session action	ATIS.3GPP.34.109V820-2012
8,768,375	United States	Granted	Method and apparatus for performing position determination with pre-session action	ATIS.3GPP.34.109V820-2012
06736334.1	European Patent Convention	Pending	Method and Apparatus for Performing Position Determination With Pre-Session Action	ATIS.3GPP.34.109V820-2012
08101430.8	Hong Kong	Pending	Method and Apparatus for Performing Position Determination With Pre-Session Action	ATIS.3GPP.34.109V820-2012
185045	Israel	Granted	Method and apparatus for performing position determination with pre-session action	ATIS.3GPP.34.109V820-2012
4653180	Japan	Granted	Method and apparatus for performing position determination with pre-session action	ATIS.3GPP.34.109V820-2012
5199318	Japan	Granted	Method and apparatus for performing position determination with pre-session action	ATIS.3GPP.34.109V820-2012
5563030	Japan	Granted	Method and apparatus for performing position determination with pre-session action	ATIS.3GPP.34.109V820-2012
10-0997304	Republic of Korea	Granted	Method and apparatus for performing position determination with pre-session action	ATIS.3GPP.34.109V820-2012
10-1004220	Republic of Korea	Granted	Method and apparatus for performing position determination with pre-session action	ATIS.3GPP.34.109V820-2012
134564	Singapore	Granted	Method and apparatus for performing position determination with pre-session action	ATIS.3GPP.34.109V820-2012

8,059,581	United States	Granted	Method and apparatus for seamless and efficient wireless handoffs	ATIS.3GPP.25.323V850-2010
I400909	Taiwan	Granted	Method and apparatus for seamless and efficient wireless handoffs	ATIS.3GPP.25.323V850-2010
8,059,581	United States	Granted	Method and apparatus for seamless and efficient wireless handoffs	ATIS.3GPP.25.331V8250-2016
I400909	Taiwan	Granted	Method and apparatus for seamless and efficient wireless handoffs	ATIS.3GPP.25.331V8250-2016
8,059,581	United States	Granted	Method and apparatus for seamless and efficient wireless handoffs	ATIS.3GPP.25.413V880-2012
I400909	Taiwan	Granted	Method and apparatus for seamless and efficient wireless handoffs	ATIS.3GPP.25.413V880-2012
8,059,581	United States	Granted	Method and apparatus for seamless and efficient wireless handoffs	ATIS.3GPP.25.423V8140-2016
I400909	Taiwan	Granted	Method and apparatus for seamless and efficient wireless handoffs	ATIS.3GPP.25.423V8140-2016
8,059,581	United States	Granted	Method and apparatus for seamless and efficient wireless handoffs	ATIS.3GPP.25.453V830-2016
I400909	Taiwan	Granted	Method and apparatus for seamless and efficient wireless handoffs	ATIS.3GPP.25.453V830-2016
8,059,581	United States	Granted	Method and apparatus for seamless and efficient wireless handoffs	ATIS.3GPP.48.008V8100-2014
I400909	Taiwan	Granted	Method and apparatus for seamless and efficient wireless handoffs	ATIS.3GPP.48.008V8100-2014
8,059,581	United States	Granted	Method and apparatus for seamless and efficient wireless handoffs	ATIS.3GPP.48.018V8110-2014
I400909	Taiwan	Granted	Method and apparatus for seamless and efficient wireless handoffs	ATIS.3GPP.48.018V8110-2014
6,594,498	United States	Granted	Communique system for cellular communication networks	ATIS.3GPP.45.008V8160-2014
7,720,475	United States	Granted	Communique system with active feedback for cellular communication networks	ATIS.3GPP.45.008V8160-2014
7,693,162	United States	Granted	Communique system with dynamic bandwidth allocation in cellular communication networks	ATIS.3GPP.45.008V8160-2014
2418301	Canada	Granted	Communique system for cellular communication networks	ATIS.3GPP.45.008V8160-2014
ZL01817344.6	China P.R.	Granted	Communique System For Cellular Communication Networks	ATIS.3GPP.45.008V8160-2014
EP1310120	Germany	Granted	Communique system for cellular communication networks	ATIS.3GPP.45.008V8160-2014
EP1310120	European Patent Convention	Granted	Communique system for cellular communication networks	ATIS.3GPP.45.008V8160-2014
EP1310120	Great Britain	Granted	Communique system for cellular communication networks	ATIS.3GPP.45.008V8160-2014
4505182	Japan	Granted	Communique system for cellular communication networks	ATIS.3GPP.45.008V8160-2014
4542115	Japan	Granted	Communique system for cellular communication networks	ATIS.3GPP.45.008V8160-2014
10-0577321	Republic of Korea	Granted	Communique System For Cellular Communication Networks	ATIS.3GPP.45.008V8160-2014
6,907,023	United States	Granted	Communique System With Dynamic Bandwidth Allocation in Cellular Communication Networks	ATIS.3GPP.45.008V8160-2014
01962136.6	European Patent Convention	Pending	Communique system with dynamic bandwidth allocation in cellular communication networks	ATIS.3GPP.45.008V8160-2014
6,687,498	United States	Granted	Communique System With Noncontiguous Communique Coverage Areas In Cellular Communication Networks	ATIS.3GPP.45.008V8160-2014
2418339	Canada	Granted	Communique System With Noncontiguous Communique Coverage Areas in Cellular Communication Networks	ATIS.3GPP.45.008V8160-2014
EP1310118	Germany	Granted	Communication system with noncontiguous coverage areas in cellular communication networks	ATIS.3GPP.45.008V8160-2014
EP1310118	European Patent Convention	Granted	Communication system with noncontiguous coverage areas in cellular communication networks	ATIS.3GPP.45.008V8160-2014
EP1310118	France	Granted	Communication system with noncontiguous coverage areas in cellular communication networks	ATIS.3GPP.45.008V8160-2014

EP1310118	Great Britain	Granted	Communication system with noncontiguous coverage areas in cellular communication networks	ATIS.3GPP.45.008V8160-2014
6,684,076	United States	Granted	Communique System With Hierarchical Communique Coverage Areas In Cellular Communication Networks	ATIS.3GPP.45.008V8160-2014
EP1400144	Germany	Granted	Communique system with hierarchical communique coverage areas in cellular communication networks	ATIS.3GPP.45.008V8160-2014
EP1400144	European Patent Convention	Granted	Communique system with hierarchical communique coverage areas in cellular communication networks	ATIS.3GPP.45.008V8160-2014
EP1400144	Spain	Granted	Communique system with hierarchical communique coverage areas in cellular communication networks	ATIS.3GPP.45.008V8160-2014
EP1400144	France	Granted	Communique system with hierarchical communique coverage areas in cellular communication networks	ATIS.3GPP.45.008V8160-2014
EP1400144	Great Britain	Granted	Communique system with hierarchical communique coverage areas in cellular communication networks	ATIS.3GPP.45.008V8160-2014
EP1400144	Italy	Granted	Communique system with hierarchical communique coverage areas in cellular communication networks	ATIS.3GPP.45.008V8160-2014
6,741,856	United States	Granted	Communique System For Virtual Private Narrowcasts In Cellular Communication Networks	ATIS.3GPP.45.008V8160-2014
EP1386501	Germany	Granted	Communique system for virtual private narrowcasts in cellular communication networks	ATIS.3GPP.45.008V8160-2014
EP1386501	European Patent Convention	Granted	Communique system for virtual private narrowcasts in cellular communication networks	ATIS.3GPP.45.008V8160-2014
EP1386501	Spain	Granted	Communique system for virtual private narrowcasts in cellular communication networks	ATIS.3GPP.45.008V8160-2014
EP1386501	France	Granted	Communique system for virtual private narrowcasts in cellular communication networks	ATIS.3GPP.45.008V8160-2014
EP1386501	Great Britain	Granted	Communique system for virtual private narrowcasts in cellular communication networks	ATIS.3GPP.45.008V8160-2014
EP1386501	Italy	Granted	Communique system for virtual private narrowcasts in cellular communication networks	ATIS.3GPP.45.008V8160-2014
4369131	Japan	Granted	Communique system for virtual private narrowcasts in cellular communication networks	ATIS.3GPP.45.008V8160-2014
6,681,115	United States	Granted	Communique Subscriber Handoff Between A Narrowcast Cellular Communication Network And A Point-To-Point Cellular Communication Network	ATIS.3GPP.45.008V8160-2014
2419553	Canada	Granted	Handoff between a narrowcast cellular communication network and a point-to-point cellular communication network	ATIS.3GPP.45.008V8160-2014
EP1310116	Germany	Granted	Handoff between a narrowcast cellular communication network and a point-to-point cellular communication network	ATIS.3GPP.45.008V8160-2014
EP1310116	European Patent Convention	Granted	Handoff between a narrowcast cellular communication network and a point-to-point cellular communication network	ATIS.3GPP.45.008V8160-2014
EP1310116	Spain	Granted	Handoff between a narrowcast cellular communication network and a point-to-point cellular communication network	ATIS.3GPP.45.008V8160-2014

EP1310116	France	Granted	Handoff between a narrowcast cellular communication network and a point-to-point cellular communication network	ATIS.3GPP.45.008V8160-2014
EP1310116	Great Britain	Granted	Handoff between a narrowcast cellular communication network and a point-to-point cellular communication network	ATIS.3GPP.45.008V8160-2014
EP1310116	Italy	Granted	Handoff between a narrowcast cellular communication network and a point-to-point cellular communication network	ATIS.3GPP.45.008V8160-2014
7,894,548	United States	Granted	Spatial spreading with space-time and space-frequency transmit diversity schemes for a wireless communication system	ATIS.3GPP.36.213V1240-2015
P050103715	Argentina	Pending	Spatial Spreading with Space-Time and Space-Frequency Transmit Diversity Schemes for a Wireless Communication System	ATIS.3GPP.36.213V1240-2015
EP1790089	Austria	Granted	Spatial Spreading with Space-Time and Space-Frequency Transmit Diversity Schemes for a Wireless Communication System	ATIS.3GPP.36.213V1240-2015
EP1790089	Belgium	Granted	Spatial Spreading with Space-Time and Space-Frequency Transmit Diversity Schemes for a Wireless Communication System	ATIS.3GPP.36.213V1240-2015
2579215	Canada	Granted	Spatial spreading with space-time and space-frequency transmit diversity schemes for a wireless communication system	ATIS.3GPP.36.213V1240-2015
EP1790089	Switzerland	Granted	Spatial Spreading with Space-Time and Space-Frequency Transmit Diversity Schemes for a Wireless Communication System	ATIS.3GPP.36.213V1240-2015
ZL200580037600.4	China P.R.	Granted	Apparatus and method for spatial spreading with transmit diversity schemes	ATIS.3GPP.36.213V1240-2015
EP1790089	Germany	Granted	Spatial Spreading with Space-Time and Space-Frequency Transmit Diversity Schemes for a Wireless Communication System	ATIS.3GPP.36.213V1240-2015
EP1790089	Denmark	Granted	Spatial Spreading with Space-Time and Space-Frequency Transmit Diversity Schemes for a Wireless Communication System	ATIS.3GPP.36.213V1240-2015
EP1790089	European Patent Convention	Granted	Spatial Spreading with Space-Time and Space-Frequency Transmit Diversity Schemes for a Wireless Communication System	ATIS.3GPP.36.213V1240-2015
14180196.9	European Patent Convention	Pending	Spatial Spreading with Space-Time and Space-Frequency Transmit Diversity Schemes for a Wireless Communication System	ATIS.3GPP.36.213V1240-2015
EP1790089	Spain	Granted	Spatial Spreading with Space-Time and Space-Frequency Transmit Diversity Schemes for a Wireless Communication System	ATIS.3GPP.36.213V1240-2015
EP1790089	Finland	Granted	Spatial Spreading with Space-Time and Space-Frequency Transmit Diversity Schemes for a Wireless Communication System	ATIS.3GPP.36.213V1240-2015
EP1790089	France	Granted	Spatial Spreading with Space-Time and Space-Frequency Transmit Diversity Schemes for a Wireless Communication System	ATIS.3GPP.36.213V1240-2015
EP1790089	Great Britain	Granted	Spatial Spreading with Space-Time and Space-Frequency Transmit Diversity Schemes for a Wireless Communication System	ATIS.3GPP.36.213V1240-2015
EP1790089	Greece	Granted	Spatial Spreading with Space-Time and Space-Frequency Transmit Diversity Schemes for a Wireless Communication System	ATIS.3GPP.36.213V1240-2015
EP1790089	Hungary	Granted	Spatial Spreading with Space-Time and Space-Frequency Transmit Diversity Schemes for a Wireless Communication System	ATIS.3GPP.36.213V1240-2015
EP1790089	Ireland	Granted	Spatial Spreading with Space-Time and Space-Frequency Transmit Diversity Schemes for a Wireless Communication System	ATIS.3GPP.36.213V1240-2015
252871	India	Granted	Spatial spreading with space-time and space-frequency transmit diversity schemes for a wireless communication system	ATIS.3GPP.36.213V1240-2015

EP1790089	Italy	Granted	Spatial Spreading with Space-Time and Space-Frequency Transmit Diversity Schemes for a Wireless Communication System	ATIS.3GPP.36.213V1240-2015
4564060	Japan	Granted	Spatial spreading with space-time and space-frequency transmit diversity schemes for a wireless communication system	ATIS.3GPP.36.213V1240-2015
10-0945957	Republic of Korea	Granted	Spatial spreading with space-time and space-frequency transmit diversity schemes for a wireless communication system	ATIS.3GPP.36.213V1240-2015
10-0945956	Republic of Korea	Granted	Spatial spreading with space-time and space-frequency transmit diversity schemes for a wireless communication system	ATIS.3GPP.36.213V1240-2015
EP1790089	Netherlands	Granted	Spatial Spreading with Space-Time and Space-Frequency Transmit Diversity Schemes for a Wireless Communication System	ATIS.3GPP.36.213V1240-2015
EP1790089	Poland	Granted	Spatial Spreading with Space-Time and Space-Frequency Transmit Diversity Schemes for a Wireless Communication System	ATIS.3GPP.36.213V1240-2015
EP1790089	Portugal	Granted	Spatial Spreading with Space-Time and Space-Frequency Transmit Diversity Schemes for a Wireless Communication System	ATIS.3GPP.36.213V1240-2015
EP1790089	Romania	Granted	Spatial Spreading with Space-Time and Space-Frequency Transmit Diversity Schemes for a Wireless Communication System	ATIS.3GPP.36.213V1240-2015
EP1790089	Sweden	Granted	Spatial Spreading with Space-Time and Space-Frequency Transmit Diversity Schemes for a Wireless Communication System	ATIS.3GPP.36.213V1240-2015
103920	Thailand	Pending	Spatial Spreading with Space-Time and Space-Frequency Transmit Diversity Schemes for a Wireless Communication System	ATIS.3GPP.36.213V1240-2015
I366996	Taiwan	Granted	Spatial spreading with space-time and space-frequency transmit diversity schemes for a wireless communication system	ATIS.3GPP.36.213V1240-2015
8,693,383	United States	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.25.331V8250-2016
PI0608749-3	Brazil	Pending	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.25.331V8250-2016
2602826	Canada	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.25.331V8250-2016
2730587	Canada	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.25.331V8250-2016
2730326	Canada	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.25.331V8250-2016
2730364	Canada	Granted	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.25.331V8250-2016
ZL200680018751.X	China P.R.	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.25.331V8250-2016
ZL201210350686.8	China P.R.	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.25.331V8250-2016
201510115598.3	China P.R.	Pending	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.25.331V8250-2016
16101171.1	Hong Kong	Pending	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.25.331V8250-2016
201510115597.9	China P.R.	Pending	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.25.331V8250-2016

16101170.2	Hong Kong	Pending	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.25.331V8250-2016
13109174.4	Hong Kong	Pending	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.25.331V8250-2016
9,407,418	United States	Granted	CHANNELIZING PACKET ACKNOWLEDGMENTS FOR MULTIPLE DATA CHANNELS IN WIRELESS COMMUNICATION	ATIS.3GPP.25.331V8250-2016
9,350,514	United States	Granted	SENDING FULL CHANNEL QUALITY INDICATION REPORTS ON TDM CHANNEL IN WIRELESS COMMUNICATION	ATIS.3GPP.25.331V8250-2016
15/160,879	United States	Pending	SENDING FULL CHANNEL QUALITY INDICATION REPORTS ON TDM CHANNEL IN WIRELESS COMMUNICATION	ATIS.3GPP.25.331V8250-2016
9,319,201	United States	Granted	REVERSE LINK PILOT WITH SELECTIVE GATING IN WIRELESS COMMUNICATION	ATIS.3GPP.25.331V8250-2016
06740062.2	European Patent Convention	Pending	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.25.331V8250-2016
HK1114716	Hong Kong	Granted	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.25.331V8250-2016
251026	India	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.25.331V8250-2016
5306807	Japan	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.25.331V8250-2016
5425750	Japan	Granted	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.25.331V8250-2016
5335883	Japan	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.25.331V8250-2016
10-0939525	Republic of Korea	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.25.331V8250-2016
10-0943663	Republic of Korea	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.25.331V8250-2016
10-0943664	Republic of Korea	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.25.331V8250-2016
10-0943665	Republic of Korea	Granted	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.25.331V8250-2016
MY-149491-A	Malaysia	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.25.331V8250-2016
MY-154839-A	Malaysia	Granted	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.25.331V8250-2016
MY-154841-A	Malaysia	Granted	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.25.331V8250-2016
MY-154804-A	Malaysia	Granted	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.25.331V8250-2016
2387083	Russian Federation	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.25.331V8250-2016
163535	Singapore	Granted	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.25.331V8250-2016

I319951	Taiwan	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.25.331V8250-2016
I510044	Taiwan	Granted	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.25.331V8250-2016
8,693,383	United States	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.44.060V8170-2014
PI0608749-3	Brazil	Pending	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.44.060V8170-2014
2602826	Canada	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.44.060V8170-2014
2730587	Canada	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.44.060V8170-2014
2730326	Canada	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.44.060V8170-2014
2730364	Canada	Granted	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.44.060V8170-2014
ZL200680018751.X	China P.R.	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.44.060V8170-2014
ZL201210350686.8	China P.R.	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.44.060V8170-2014
201510115598.3	China P.R.	Pending	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.44.060V8170-2014
16101171.1	Hong Kong	Pending	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.44.060V8170-2014
201510115597.9	China P.R.	Pending	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.44.060V8170-2014
16101170.2	Hong Kong	Pending	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.44.060V8170-2014
13109174.4	Hong Kong	Pending	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.44.060V8170-2014
9,407,418	United States	Granted	CHANNELIZING PACKET ACKNOWLEDGMENTS FOR MULTIPLE DATA CHANNELS IN WIRELESS COMMUNICATION	ATIS.3GPP.44.060V8170-2014
9,350,514	United States	Granted	SENDING FULL CHANNEL QUALITY INDICATION REPORTS ON TDM CHANNEL IN WIRELESS COMMUNICATION	ATIS.3GPP.44.060V8170-2014
15/160,879	United States	Pending	SENDING FULL CHANNEL QUALITY INDICATION REPORTS ON TDM CHANNEL IN WIRELESS COMMUNICATION	ATIS.3GPP.44.060V8170-2014
9,319,201	United States	Granted	REVERSE LINK PILOT WITH SELECTIVE GATING IN WIRELESS COMMUNICATION	ATIS.3GPP.44.060V8170-2014
06740062.2	European Patent Convention	Pending	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.44.060V8170-2014
HK1114716	Hong Kong	Granted	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.44.060V8170-2014
251026	India	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.44.060V8170-2014

5306807	Japan	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.44.060V8170-2014
5425750	Japan	Granted	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.44.060V8170-2014
5335883	Japan	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.44.060V8170-2014
10-0939525	Republic of Korea	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.44.060V8170-2014
10-0943663	Republic of Korea	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.44.060V8170-2014
10-0943664	Republic of Korea	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.44.060V8170-2014
10-0943665	Republic of Korea	Granted	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.44.060V8170-2014
MY-149491-A	Malaysia	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.44.060V8170-2014
MY-154839-A	Malaysia	Granted	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.44.060V8170-2014
MY-154841-A	Malaysia	Granted	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.44.060V8170-2014
MY-154804-A	Malaysia	Granted	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.44.060V8170-2014
2387083	Russian Federation	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.44.060V8170-2014
163535	Singapore	Granted	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.44.060V8170-2014
I319951	Taiwan	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.44.060V8170-2014
I510044	Taiwan	Granted	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.44.060V8170-2014
7,848,298	United States	Granted	De-coupling forward and reverse link assignment for multi-carrier wireless communication systems	ATIS.3GPP.25.331V8250-2016
PI0608893-7	Brazil	Pending	De-coupling forward and reverse link assignment for multi-carrier wireless communication systems	ATIS.3GPP.25.331V8250-2016
2600150	Canada	Granted	De-coupling forward and reverse link assignment for multi-carrier wireless communication systems	ATIS.3GPP.25.331V8250-2016
ZL200680014873.1	China P.R.	Granted	De-coupling forward and reverse link assignment for multi-carrier wireless communication systems	ATIS.3GPP.25.331V8250-2016
EP1856942	Germany	Granted	De-coupling forward and reverse link assignment for multi-carrier wireless communication systems	ATIS.3GPP.25.331V8250-2016
EP1856942	European Patent Convention	Granted	De-coupling forward and reverse link assignment for multi-carrier wireless communication systems	ATIS.3GPP.25.331V8250-2016
EP1856942	France	Granted	De-coupling forward and reverse link assignment for multi-carrier wireless communication systems	ATIS.3GPP.25.331V8250-2016

EP1856942	Great Britain	Granted	De-coupling forward and reverse link assignment for multi-carrier wireless communication systems	ATIS.3GPP.25.331V8250-2016
HK1121321	Hong Kong	Granted	De-Coupling Forward and Reverse Link Assignment for Multi-Carrier Wireless Communication Systems	ATIS.3GPP.25.331V8250-2016
244442	India	Granted	De-coupling forward and reverse link assignment for multi-carrier wireless communication systems	ATIS.3GPP.25.331V8250-2016
4773507	Japan	Granted	De-coupling forward and reverse link assignment for multi-carrier wireless communication systems	ATIS.3GPP.25.331V8250-2016
10-0944926	Republic of Korea	Granted	De-coupling forward and reverse link assignment for multi-carrier wireless communication systems	ATIS.3GPP.25.331V8250-2016
2381635	Russian Federation	Granted	De-coupling forward and reverse link assignment for multi-carrier wireless communication systems	ATIS.3GPP.25.331V8250-2016
160366	Singapore	Granted	De-coupling forward and reverse link assignment for multi-carrier wireless communication systems	ATIS.3GPP.25.331V8250-2016
I382697	Taiwan	Granted	De-Coupling Forward and Reverse Link Assignment for Multi-Carrier Wireless Communication Systems	ATIS.3GPP.25.331V8250-2016
8,942,713	United States	Granted	Method and apparatus for allocating resources in a multicast/broadcast communications system	ATIS.3GPP.25.331V8250-2016
PI0607318-2	Brazil	Pending	Method and apparatus for allocating resources in a multicast/broadcast communications system	ATIS.3GPP.25.331V8250-2016
200680009663.3	China P.R.	Pending	Method and apparatus for allocating resources in a multicast/broadcast communications system	ATIS.3GPP.25.331V8250-2016
201510994300.0	China P.R.	Pending	Method and apparatus for allocating resources in a multicast/broadcast communications system	ATIS.3GPP.25.331V8250-2016
EP1875759	Germany	Granted	Allocating resources in a multicast/broadcast communications system	ATIS.3GPP.25.331V8250-2016
EP1875759	European Patent Convention	Granted	Allocating resources in a multicast/broadcast communications system	ATIS.3GPP.25.331V8250-2016
EP1875759	Great Britain	Granted	Allocating resources in a multicast/broadcast communications system	ATIS.3GPP.25.331V8250-2016
245146	India	Granted	Method and apparatus for allocating resources in a multicast/broadcast communications system	ATIS.3GPP.25.331V8250-2016
4643658	Japan	Granted	Method and apparatus for allocating resources in a multicast/broadcast communications system	ATIS.3GPP.25.331V8250-2016
10-0949691	Republic of Korea	Granted	Method and apparatus for allocating resources in a multicast/broadcast communications system	ATIS.3GPP.25.331V8250-2016
2366114	Russian Federation	Granted	Method and apparatus for allocating resources in a multicast/broadcast communications system	ATIS.3GPP.25.331V8250-2016
I387383	Taiwan	Granted	Method and apparatus for allocating resources in a multicast/broadcast communications system	ATIS.3GPP.25.331V8250-2016
8,942,713	United States	Granted	Method and apparatus for allocating resources in a multicast/broadcast communications system	ATIS.3GPP.25.346V840-2010
PI0607318-2	Brazil	Pending	Method and apparatus for allocating resources in a multicast/broadcast communications system	ATIS.3GPP.25.346V840-2010
200680009663.3	China P.R.	Pending	Method and apparatus for allocating resources in a multicast/broadcast communications system	ATIS.3GPP.25.346V840-2010

201510994300.0	China P.R.	Pending	Method and apparatus for allocating resources in a multicast/broadcast communications system	ATIS.3GPP.25.346V840-2010
EP1875759	Germany	Granted	Allocating resources in a multicast/broadcast communications system	ATIS.3GPP.25.346V840-2010
EP1875759	European Patent Convention	Granted	Allocating resources in a multicast/broadcast communications system	ATIS.3GPP.25.346V840-2010
EP1875759	Great Britain	Granted	Allocating resources in a multicast/broadcast communications system	ATIS.3GPP.25.346V840-2010
245146	India	Granted	Method and apparatus for allocating resources in a multicast/broadcast communications system	ATIS.3GPP.25.346V840-2010
4643658	Japan	Granted	Method and apparatus for allocating resources in a multicast/broadcast communications system	ATIS.3GPP.25.346V840-2010
10-0949691	Republic of Korea	Granted	Method and apparatus for allocating resources in a multicast/broadcast communications system	ATIS.3GPP.25.346V840-2010
2366114	Russian Federation	Granted	Method and apparatus for allocating resources in a multicast/broadcast communications system	ATIS.3GPP.25.346V840-2010
I387383	Taiwan	Granted	Method and apparatus for allocating resources in a multicast/broadcast communications system	ATIS.3GPP.25.346V840-2010
8,150,408	United States	Granted	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
2006220538	Australia	Granted	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
PI0609287-0	Brazil	Pending	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
ZL200680014131.9	China P.R.	Granted	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
EP1867199	Germany	Granted	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
EP2219404	Germany	Granted	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
EP1867199	European Patent Convention	Granted	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
EP2219404	European Patent Convention	Granted	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
HK1145590	Hong Kong	Granted	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
10163288.3	European Patent Convention	Pending	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
11101739.1	Hong Kong	Pending	Method and apparatus for indicating channel correspondence for reverse power control	ATIS.3GPP.25.331V8250-2016
EP1867199	France	Granted	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
EP1867199	Great Britain	Granted	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
EP2219404	Great Britain	Granted	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
ID0023852	Indonesia	Granted	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
247969	India	Granted	A method and an apparatus for wireless communications in a multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
1174/MUMNP/2011	India	Pending	A method and apparatus for wireless communications in a multi carrier communication systems	ATIS.3GPP.25.331V8250-2016
4773506	Japan	Granted	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
5350411	Japan	Granted	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
5420574	Japan	Granted	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
10-0975243	Republic of Korea	Granted	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
10-1003321	Republic of Korea	Granted	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
MX274834	Mexico	Granted	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016

1-2007-501938	Philippines	Pending	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
2344570	Russian Federation	Granted	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
135416	Singapore	Granted	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
92003	Ukraine	Granted	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
1-2007-01934	Vietnam	Pending	Pilot grouping and set management in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
8,868,118	United States	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.133V8200-2016
PI0610455-0	Brazil	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.133V8200-2016
ZL200680019825.1	China P.R.	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.133V8200-2016
ZL201010519875.4	China P.R.	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.133V8200-2016
HK1153894	Hong Kong	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.133V8200-2016
8,983,480	United States	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.133V8200-2016
EP1875624	Germany	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.133V8200-2016
EP1875624	European Patent Convention	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.133V8200-2016
EP1875624	Great Britain	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.133V8200-2016
259023	India	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.133V8200-2016
1544/MUMNP/2012	India	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.133V8200-2016
4773509	Japan	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.133V8200-2016
10-1019546	Republic of Korea	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.133V8200-2016
2384944	Russian Federation	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.133V8200-2016
136444	Singapore	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.133V8200-2016
I325250	Taiwan	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.133V8200-2016
I405430	Taiwan	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.133V8200-2016
8,868,118	United States	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.321V8170-2014
PI0610455-0	Brazil	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.321V8170-2014

ZL200680019825.1	China P.R.	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.321V8170-2014
ZL201010519875.4	China P.R.	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.321V8170-2014
HK1153894	Hong Kong	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.321V8170-2014
8,983,480	United States	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.321V8170-2014
EP1875624	Germany	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.321V8170-2014
EP1875624	European Patent Convention	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.321V8170-2014
EP1875624	Great Britain	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.321V8170-2014
259023	India	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.321V8170-2014
1544/MUMNP/2012	India	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.321V8170-2014
4773509	Japan	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.321V8170-2014
10-1019546	Republic of Korea	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.321V8170-2014
2384944	Russian Federation	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.321V8170-2014
136444	Singapore	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.321V8170-2014
I325250	Taiwan	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.321V8170-2014
I405430	Taiwan	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.321V8170-2014
8,868,118	United States	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.331V8250-2016
PI0610455-0	Brazil	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.331V8250-2016
ZL200680019825.1	China P.R.	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.331V8250-2016
ZL201010519875.4	China P.R.	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.331V8250-2016
HK1153894	Hong Kong	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.331V8250-2016
8,983,480	United States	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.331V8250-2016
EP1875624	Germany	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.331V8250-2016

EP1875624	European Patent Convention	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.331V8250-2016
EP1875624	Great Britain	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.331V8250-2016
259023	India	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.331V8250-2016
1544/MUMNP/2012	India	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.331V8250-2016
4773509	Japan	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.331V8250-2016
10-1019546	Republic of Korea	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.331V8250-2016
2384944	Russian Federation	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.331V8250-2016
136444	Singapore	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.331V8250-2016
I325250	Taiwan	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.331V8250-2016
I405430	Taiwan	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	ATIS.3GPP.25.331V8250-2016
7,961,700	United States	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP2146545	Austria	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
2006239968	Australia	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP1875692	Belgium	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP2146545	Belgium	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
PI0611147-5	Brazil	Pending	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
2606793	Canada	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP2146545	Switzerland	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
ZL200680022108.4	China P.R.	Granted	Wireless user equipment device, base transceiver station, and method of operating the two	ATIS.3GPP.25.212V880-2016
EP1875692	Germany	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP2146545	Germany	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP2146545	Denmark	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP1875692	European Patent Convention	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP2146545	European Patent Convention	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
HK1140620	Hong Kong	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP1875692	Spain	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP2146545	Spain	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP1875692	Finland	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP2146545	Finland	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP1875692	France	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP2146545	France	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016

EP1875692	Great Britain	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP2146545	Great Britain	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP2146545	Greece	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
HK1119884	Hong Kong	Granted	Wireless user equipment device, base transceiver station and operation method of both	ATIS.3GPP.25.212V880-2016
EP1875692	Hungary	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP2146545	Hungary	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
IDP000038607	Indonesia	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP1875692	Ireland	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP2146545	Ireland	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
186969	Israel	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
254325	India	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP1875692	Italy	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP2146545	Italy	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
4750843	Japan	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
5611869	Japan	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
10-0946283	Republic of Korea	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
10-0964830	Republic of Korea	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
275773	Mexico	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
MY-144439-A	Malaysia	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP1875692	Netherlands	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP2146545	Netherlands	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
20076117	Norway	Pending	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
1-2007-502417	Philippines	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP1875692	Poland	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP2146545	Poland	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP2146545	Portugal	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP1875692	Romania	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP2146545	Romania	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
2379844	Russian Federation	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
2493666	Russian Federation	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP1875692	Sweden	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
EP2146545	Sweden	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
137082	Singapore	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
154498	Singapore	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
I404366	Taiwan	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
93376	Ukraine	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
9321	Vietnam	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.25.212V880-2016
7,961,700	United States	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP2146545	Austria	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014

2006239968	Australia	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP1875692	Belgium	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP2146545	Belgium	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
PI0611147-5	Brazil	Pending	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
2606793	Canada	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP2146545	Switzerland	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
ZL200680022108.4	China P.R.	Granted	Wireless user equipment device, base transceiver station, and method of operating the two	ATIS.3GPP.44.060V8170-2014
EP1875692	Germany	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP2146545	Germany	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP2146545	Denmark	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP1875692	European Patent Convention	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP2146545	European Patent Convention	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
HK1140620	Hong Kong	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP1875692	Spain	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP2146545	Spain	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP1875692	Finland	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP2146545	Finland	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP1875692	France	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP2146545	France	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP1875692	Great Britain	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP2146545	Great Britain	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP2146545	Greece	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
HK1119884	Hong Kong	Granted	Wireless user equipment device, base transceiver station and operation method of both	ATIS.3GPP.44.060V8170-2014
EP1875692	Hungary	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP2146545	Hungary	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
IDP000038607	Indonesia	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP1875692	Ireland	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP2146545	Ireland	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
186969	Israel	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
254325	India	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP1875692	Italy	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP2146545	Italy	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
4750843	Japan	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
5611869	Japan	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
10-0946283	Republic of Korea	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
10-0964830	Republic of Korea	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
275773	Mexico	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
MY-144439-A	Malaysia	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP1875692	Netherlands	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014

EP2146545	Netherlands	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
20076117	Norway	Pending	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
1-2007-502417	Philippines	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP1875692	Poland	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP2146545	Poland	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP2146545	Portugal	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP1875692	Romania	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP2146545	Romania	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
2379844	Russian Federation	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
2493666	Russian Federation	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP1875692	Sweden	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
EP2146545	Sweden	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
137082	Singapore	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
154498	Singapore	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
I404366	Taiwan	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
93376	Ukraine	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
9321	Vietnam	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.44.060V8170-2014
8,169,953	United States	Granted	Method and apparatus for wireless multi-carrier communications	ATIS.3GPP.44.060V8170-2014
2006247073	Australia	Pending	Method and apparatus for wireless multi-carrier communications	ATIS.3GPP.44.060V8170-2014
PI0611265-0	Brazil	Pending	Method and apparatus for wireless multi-carrier communications	ATIS.3GPP.44.060V8170-2014
2608658	Canada	Granted	Method and apparatus for wireless multi-carrier communications	ATIS.3GPP.44.060V8170-2014
ZL200680025258.0	China P.R.	Granted	Method and apparatus for wireless multi-carrier communications	ATIS.3GPP.44.060V8170-2014
10105815.0	Hong Kong	Pending	Method and apparatus for wireless multi-carrier communications	ATIS.3GPP.44.060V8170-2014
EP1882372	Germany	Granted	Method and apparatus for wireless multi-carrier communications	ATIS.3GPP.44.060V8170-2014
EP1882372	European Patent Convention	Granted	Method and apparatus for wireless multi-carrier communications	ATIS.3GPP.44.060V8170-2014
EP1882372	Great Britain	Granted	Method and apparatus for wireless multi-carrier communications	ATIS.3GPP.44.060V8170-2014
251458	India	Granted	Method and apparatus for wireless multi-carrier communications	ATIS.3GPP.44.060V8170-2014
2628/MUMNP/2011	India	Pending	Method and apparatus for wireless multi-carrier communications	ATIS.3GPP.44.060V8170-2014
4834083	Japan	Granted	Method and apparatus for wireless multi-carrier communications	ATIS.3GPP.44.060V8170-2014
10-1018588	Republic of Korea	Granted	Method and apparatus for wireless multi-carrier communications	ATIS.3GPP.44.060V8170-2014
281451	Mexico	Granted	Method and apparatus for wireless multi-carrier communications	ATIS.3GPP.44.060V8170-2014
2395905	Russian Federation	Granted	Method and apparatus for wireless multi-carrier communications	ATIS.3GPP.44.060V8170-2014
2513705	Russian Federation	Granted	Method and apparatus for wireless multi-carrier communications	ATIS.3GPP.44.060V8170-2014
I375476	Taiwan	Granted	Method and apparatus for wireless multi-carrier communications	ATIS.3GPP.44.060V8170-2014
94407	Ukraine	Granted	Method and apparatus for wireless multi-carrier communications	ATIS.3GPP.44.060V8170-2014
1-2007-02694	Vietnam	Pending	Method and apparatus for wireless multi-carrier communications	ATIS.3GPP.44.060V8170-2014
8,059,608	United States	Granted	Transmit spatial diversity for cellular single frequency networks	ATIS.3GPP.25.308V8111-2014
EP1894317	Anguilla	Granted	Transmit spatial diversity for cellular single frequency networks	ATIS.3GPP.25.308V8111-2014
EP1894317	Bermuda	Granted	Transmit spatial diversity for cellular single frequency networks	ATIS.3GPP.25.308V8111-2014
8,570,982	United States	Granted	Transmit spatial diversity for cellular single frequency networks	ATIS.3GPP.25.308V8111-2014

ZL200680028682.0	China P.R.	Granted	Transmit spatial diversity for cellular single frequency networks	ATIS.3GPP.25.308V8111-2014
ZL201210140266.7	China P.R.	Granted	Transmit spatial diversity for cellular single frequency networks	ATIS.3GPP.25.308V8111-2014
EP1894317	Germany	Granted	Transmit spatial diversity for cellular single frequency networks	ATIS.3GPP.25.308V8111-2014
EP1894317	European Patent Convention	Granted	Transmit spatial diversity for cellular single frequency networks	ATIS.3GPP.25.308V8111-2014
10168349.8	European Patent Convention	Pending	Transmit spatial diversity for cellular single frequency networks	ATIS.3GPP.25.308V8111-2014
EP1894317	Fiji Islands	Granted	Transmit spatial diversity for cellular single frequency networks	ATIS.3GPP.25.308V8111-2014
EP1894317	Falkland Islands	Granted	Transmit spatial diversity for cellular single frequency networks	ATIS.3GPP.25.308V8111-2014
EP1894317	Great Britain	Granted	Transmit spatial diversity for cellular single frequency networks	ATIS.3GPP.25.308V8111-2014
EP1894317	Guernsey	Granted	Transmit spatial diversity for cellular single frequency networks	ATIS.3GPP.25.308V8111-2014
251538	India	Granted	Method of transmitting data from a plurality of sectors in a cellular communication system	ATIS.3GPP.25.308V8111-2014
EP1894317	Jersey	Granted	Transmit spatial diversity for cellular single frequency networks	ATIS.3GPP.25.308V8111-2014
5925750	Japan	Granted	Transmit spatial diversity for cellular single frequency networks	ATIS.3GPP.25.308V8111-2014
5475046	Japan	Granted	Transmit spatial diversity for cellular single frequency networks	ATIS.3GPP.25.308V8111-2014
10-0942652	Republic of Korea	Granted	Transmit spatial diversity for cellular single frequency networks	ATIS.3GPP.25.308V8111-2014
EP1894317	Cayman Islands	Granted	Transmit spatial diversity for cellular single frequency networks	ATIS.3GPP.25.308V8111-2014
EP1894317	Montserrat	Granted	Transmit spatial diversity for cellular single frequency networks	ATIS.3GPP.25.308V8111-2014
EP1894317	Nauru	Granted	Transmit spatial diversity for cellular single frequency networks	ATIS.3GPP.25.308V8111-2014
I322632	Taiwan	Granted	Transmit spatial diversity for cellular single frequenc networks	ATIS.3GPP.25.308V8111-2014
EP1894317	British Virgin Islands	Granted	Transmit spatial diversity for cellular single frequency networks	ATIS.3GPP.25.308V8111-2014
9,154,907	United States	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.305V810-2009
PI0611749-0	Brazil	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.305V810-2009
14/875,091	United States	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.305V810-2009
2612764	Canada	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.305V810-2009
06773781.7	European Patent Convention	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.305V810-2009
12164006.4	European Patent Convention	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.305V810-2009
13100459.9	Hong Kong	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.305V810-2009
14193340.8	European Patent Convention	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.305V810-2009
08109444.5	Hong Kong	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.305V810-2009
188265	Israel	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.305V810-2009
10024/DELNP/2007	India	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.305V810-2009
5349961	Japan	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.305V810-2009
5547131	Japan	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.305V810-2009
10-0937089	Republic of Korea	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.305V810-2009
2384021	Russian Federation	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.305V810-2009
163515	Singapore	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.305V810-2009
9,154,907	United States	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.413V880-2012
PI0611749-0	Brazil	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.413V880-2012
14/875,091	United States	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.413V880-2012
2612764	Canada	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.413V880-2012

06773781.7	European Patent Convention	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.413V880-2012
12164006.4	European Patent Convention	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.413V880-2012
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14193340.8	European Patent Convention	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.413V880-2012
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188265	Israel	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.413V880-2012
10024/DELNP/2007	India	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.413V880-2012
5349961	Japan	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.413V880-2012
5547131	Japan	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.413V880-2012
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2384021	Russian Federation	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.413V880-2012
163515	Singapore	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.413V880-2012
9,154,907	United States	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.453V830-2016
PI0611749-0	Brazil	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.453V830-2016
14/875,091	United States	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.453V830-2016
2612764	Canada	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.453V830-2016
06773781.7	European Patent Convention	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.453V830-2016
12164006.4	European Patent Convention	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.453V830-2016
13100459.9	Hong Kong	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.453V830-2016
14193340.8	European Patent Convention	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.453V830-2016
08109444.5	Hong Kong	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.453V830-2016
188265	Israel	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.453V830-2016
10024/DELNP/2007	India	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.453V830-2016
5349961	Japan	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.453V830-2016
5547131	Japan	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.453V830-2016
10-0937089	Republic of Korea	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.453V830-2016
2384021	Russian Federation	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.453V830-2016
163515	Singapore	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.25.453V830-2016
8,160,596	United States	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
EP1911180	Austria	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
EP1911180	Belgium	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
PI0613557-9	Brazil	Pending	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
2616003	Canada	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
EP1911180	Switzerland	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
ZL200680034159.9	China P.R.	Granted	A method and system for providing asymmetric modes of operation in multi-carrier wireless communication systems	ATIS.3GPP.25.133V8200-2016
EP1911180	Germany	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
EP1911180	Denmark	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
EP1911180	European Patent Convention	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
EP1911180	Spain	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016

EP1911180	Finland	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
EP1911180	France	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
EP1911180	Great Britain	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
EP1911180	Greece	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
HK1123893	Hong Kong	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
EP1911180	Hungary	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
EP1911180	Ireland	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
252794	India	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
EP1911180	Italy	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
4927839	Japan	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
10-0939524	Republic of Korea	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
EP1911180	Netherlands	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
EP1911180	Poland	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
EP1911180	Portugal	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
EP1911180	Romania	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
2378764	Russian Federation	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
EP1911180	Sweden	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
139273	Singapore	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
I325247	Taiwan	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.133V8200-2016
8,160,596	United States	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
EP1911180	Austria	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
EP1911180	Belgium	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
PI0613557-9	Brazil	Pending	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
2616003	Canada	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
EP1911180	Switzerland	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
ZL200680034159.9	China P.R.	Granted	A method and system for providing asymmetric modes of operation in multi-carrier wireless communication systems	ATIS.3GPP.25.321V8170-2014
EP1911180	Germany	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
EP1911180	Denmark	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
EP1911180	European Patent Convention	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
EP1911180	Spain	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
EP1911180	Finland	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
EP1911180	France	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
EP1911180	Great Britain	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
EP1911180	Greece	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
HK1123893	Hong Kong	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
EP1911180	Hungary	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
EP1911180	Ireland	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
252794	India	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
EP1911180	Italy	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014

4927839	Japan	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
10-0939524	Republic of Korea	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
EP1911180	Netherlands	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
EP1911180	Poland	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
EP1911180	Portugal	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
EP1911180	Romania	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
2378764	Russian Federation	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
EP1911180	Sweden	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
139273	Singapore	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
I325247	Taiwan	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.321V8170-2014
8,160,596	United States	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
EP1911180	Austria	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
EP1911180	Belgium	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
PI0613557-9	Brazil	Pending	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
2616003	Canada	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
EP1911180	Switzerland	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
ZL200680034159.9	China P.R.	Granted	A method and system for providing asymmetric modes of operation in multi-carrier wireless communication systems	ATIS.3GPP.25.331V8250-2016
EP1911180	Germany	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
EP1911180	Denmark	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
EP1911180	European Patent Convention	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
EP1911180	Spain	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
EP1911180	Finland	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
EP1911180	France	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
EP1911180	Great Britain	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
EP1911180	Greece	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
HK1123893	Hong Kong	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
EP1911180	Hungary	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
EP1911180	Ireland	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
252794	India	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
EP1911180	Italy	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
4927839	Japan	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
10-0939524	Republic of Korea	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
EP1911180	Netherlands	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
EP1911180	Poland	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
EP1911180	Portugal	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
EP1911180	Romania	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
2378764	Russian Federation	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
EP1911180	Sweden	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
139273	Singapore	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016

I325247	Taiwan	Granted	Asymmetric mode of operation in multi-carrier communication systems	ATIS.3GPP.25.331V8250-2016
8,358,629	United States	Granted	Mobile device-initiated measurement gap request	ATIS.3GPP.25.367V830-2010
AR056760	Argentina	Granted	Mobile device-initiated measurement gap request	ATIS.3GPP.25.367V830-2010
PI0618186-4	Brazil	Pending	Mobile device-initiated measurement gap request	ATIS.3GPP.25.367V830-2010
2628213	Canada	Pending	Mobile device-initiated measurement gap request	ATIS.3GPP.25.367V830-2010
201610082542.7	China P.R.	Pending	Mobile device-initiated measurement gap request	ATIS.3GPP.25.367V830-2010
06839669.6	European Patent Convention	Pending	Mobile device-initiated measurement gap request	ATIS.3GPP.25.367V830-2010
262568	India	Granted	A method for determining signal quality in a communication network and a communication apparatus thereof	ATIS.3GPP.25.367V830-2010
10-1120735	Republic of Korea	Granted	Mobile device-initiated measurement gap request	ATIS.3GPP.25.367V830-2010
10-1189878	Republic of Korea	Granted	Mobile device-initiated measurement gap request	ATIS.3GPP.25.367V830-2010
2445755	Russian Federation	Granted	Mobile device-initiated measurement gap request	ATIS.3GPP.25.367V830-2010
166867	Singapore	Granted	Mobile device-initiated measurement gap request	ATIS.3GPP.25.367V830-2010
I425849	Taiwan	Granted	Mobile device-initiated measurement gap request	ATIS.3GPP.25.367V830-2010
8,094,595	United States	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
EP2234451	Austria	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
EP2234451	Belgium	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
8,098,635	United States	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
EP2234451	Switzerland	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
ZL200680039441.6	China P.R.	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
ZL201110069675.8	China P.R.	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
EP1932380	Germany	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
EP2234451	Germany	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
EP2234451	Denmark	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
EP1932380	European Patent Convention	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
EP2234451	European Patent Convention	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
13178229.4	European Patent Convention	Pending	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
EP1932380	Spain	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
EP2234451	Spain	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
EP2234451	Finland	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
EP1932380	France	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
EP2234451	France	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
EP1932380	Great Britain	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
EP2234451	Great Britain	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
EP2234451	Greece	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
EP2234451	Hungary	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
EP2234451	Ireland	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
259288	India	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
266/MUMNP/2012	India	Pending	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
EP1932380	Italy	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014

EP2234451	Italy	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
4865795	Japan	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
5461464	Japan	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
5583819	Japan	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
10-1042082	Republic of Korea	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
10-1111048	Republic of Korea	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
EP2234451	Netherlands	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
EP2234451	Poland	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
EP2234451	Portugal	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
EP2234451	Romania	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
EP2234451	Sweden	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
I336181	Taiwan	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.321V8170-2014
8,094,595	United States	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP2234451	Austria	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP2234451	Belgium	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
8,098,635	United States	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP2234451	Switzerland	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
ZL200680039441.6	China P.R.	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
ZL201110069675.8	China P.R.	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP1932380	Germany	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP2234451	Germany	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP2234451	Denmark	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP1932380	European Patent Convention	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP2234451	European Patent Convention	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
13178229.4	European Patent Convention	Pending	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP1932380	Spain	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP2234451	Spain	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP2234451	Finland	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP1932380	France	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP2234451	France	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP1932380	Great Britain	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP2234451	Great Britain	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP2234451	Greece	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP2234451	Hungary	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP2234451	Ireland	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
259288	India	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
266/MUMNP/2012	India	Pending	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP1932380	Italy	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP2234451	Italy	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
4865795	Japan	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016

5461464	Japan	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
5583819	Japan	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
10-1042082	Republic of Korea	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
10-1111048	Republic of Korea	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP2234451	Netherlands	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP2234451	Poland	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP2234451	Portugal	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP2234451	Romania	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
EP2234451	Sweden	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
I336181	Taiwan	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.25.331V8250-2016
8,582,509	United States	Granted	Scalable frequency band operation in wireless communication systems	ATIS.3GPP.44.060V8170-2014
AR056598	Argentina	Granted	Scalable frequency band operation in wireless communication systems	ATIS.3GPP.44.060V8170-2014
8,489,128	United States	Granted	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.25.321V8170-2014
PI0618057-4	Brazil	Pending	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.25.321V8170-2014
9,386,575	United States	Granted	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.25.321V8170-2014
2627613	Canada	Granted	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.25.321V8170-2014
ZL200680049526.2	China P.R.	Granted	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.25.321V8170-2014
06839644.9	European Patent Convention	Pending	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.25.321V8170-2014
3604/DELNP/2008	India	Pending	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.25.321V8170-2014
4875098	Japan	Granted	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.25.321V8170-2014
10-0983198	Republic of Korea	Granted	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.25.321V8170-2014
2392749	Russian Federation	Granted	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.25.321V8170-2014
I326167	Taiwan	Granted	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.25.321V8170-2014
7,768,449	United States	Granted	Global navigation satellite system	ATIS.3GPP.25.331V8250-2016
8,334,807	United States	Granted	Global navigation satellite system	ATIS.3GPP.25.331V8250-2016
ZL200780002070.9	China P.R.	Granted	Global navigation satellite system	ATIS.3GPP.25.331V8250-2016
5431/DELNP/2008	India	Pending	Global navigation satellite system	ATIS.3GPP.25.331V8250-2016
10-1037059	Republic of Korea	Granted	Global navigation satellite system	ATIS.3GPP.25.331V8250-2016
7,768,449	United States	Granted	Global navigation satellite system	ATIS.3GPP.44.031V870-2014
8,334,807	United States	Granted	Global navigation satellite system	ATIS.3GPP.44.031V870-2014
ZL200780002070.9	China P.R.	Granted	Global navigation satellite system	ATIS.3GPP.44.031V870-2014
5431/DELNP/2008	India	Pending	Global navigation satellite system	ATIS.3GPP.44.031V870-2014
10-1037059	Republic of Korea	Granted	Global navigation satellite system	ATIS.3GPP.44.031V870-2014
7,893,869	United States	Granted	Global navigation satellite system	ATIS.3GPP.25.331V8250-2016
8,723,726	United States	Granted	Global navigation satellite system	ATIS.3GPP.25.331V8250-2016
7,893,869	United States	Granted	Global navigation satellite system	ATIS.3GPP.44.031V870-2014
8,723,726	United States	Granted	Global navigation satellite system	ATIS.3GPP.44.031V870-2014
7,450,543	United States	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
EP1421802	Austria	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
EP1421802	Belgium	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015

12/249,637	United States	Pending	Methods and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
13/965,480	United States	Pending	Methods and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
EP1421802	Switzerland	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
ZL02815846.6	China P.R.	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
ZL201210135887.6	China P.R.	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
13102478.2	Hong Kong	Pending	Methods and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
EP1421802	Germany	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
EP1421802	Denmark	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
EP1421802	European Patent Convention	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
12006352.4	European Patent Convention	Pending	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
EP1421802	Spain	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
EP1421802	Finland	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
EP1421802	France	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
EP1421802	Great Britain	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
EP1421802	Greece	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
EP1421802	Ireland	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
240905	India	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
EP1421802	Italy	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
5497121	Japan	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
5497120	Japan	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
10-0945969	Republic of Korea	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
EP1421802	Netherlands	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
EP1421802	Portugal	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
EP1421802	Sweden	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
I222814	Taiwan	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.36.133V1260-2015
7,450,543	United States	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
EP1421802	Austria	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
EP1421802	Belgium	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
12/249,637	United States	Pending	Methods and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
13/965,480	United States	Pending	Methods and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
EP1421802	Switzerland	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
ZL02815846.6	China P.R.	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
ZL201210135887.6	China P.R.	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
13102478.2	Hong Kong	Pending	Methods and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
EP1421802	Germany	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
EP1421802	Denmark	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
EP1421802	European Patent Convention	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
12006352.4	European Patent Convention	Pending	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
EP1421802	Spain	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
EP1421802	Finland	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010

EP1421802	France	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
EP1421802	Great Britain	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
EP1421802	Greece	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
EP1421802	Ireland	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
240905	India	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
EP1421802	Italy	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
5497121	Japan	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
5497120	Japan	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
10-0945969	Republic of Korea	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
EP1421802	Netherlands	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
EP1421802	Portugal	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
EP1421802	Sweden	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
I222814	Taiwan	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.36.300V8120-2010
7,450,543	United States	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
EP1421802	Austria	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
EP1421802	Belgium	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
12/249,637	United States	Pending	Methods and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
13/965,480	United States	Pending	Methods and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
EP1421802	Switzerland	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
ZL02815846.6	China P.R.	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
ZL201210135887.6	China P.R.	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
13102478.2	Hong Kong	Pending	Methods and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
EP1421802	Germany	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
EP1421802	Denmark	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
EP1421802	European Patent Convention	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
12006352.4	European Patent Convention	Pending	Method and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
EP1421802	Spain	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
EP1421802	Finland	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
EP1421802	France	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
EP1421802	Great Britain	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
EP1421802	Greece	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
EP1421802	Ireland	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
240905	India	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
EP1421802	Italy	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
5497121	Japan	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
5497120	Japan	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
10-0945969	Republic of Korea	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
EP1421802	Netherlands	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
EP1421802	Portugal	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
EP1421802	Sweden	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010

I222814	Taiwan	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.43.318V840-2010
7,450,543	United States	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
EP1421802	Austria	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
EP1421802	Belgium	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
12/249,637	United States	Pending	Methods and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
13/965,480	United States	Pending	Methods and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
EP1421802	Switzerland	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
ZL02815846.6	China P.R.	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
ZL201210135887.6	China P.R.	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
13102478.2	Hong Kong	Pending	Methods and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
EP1421802	Germany	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
EP1421802	Denmark	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
EP1421802	European Patent Convention	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
12006352.4	European Patent Convention	Pending	Method and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
EP1421802	Spain	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
EP1421802	Finland	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
EP1421802	France	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
EP1421802	Great Britain	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
EP1421802	Greece	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
EP1421802	Ireland	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
240905	India	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
EP1421802	Italy	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
5497121	Japan	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
5497120	Japan	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
10-0945969	Republic of Korea	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
EP1421802	Netherlands	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
EP1421802	Portugal	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
EP1421802	Sweden	Granted	Method and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
I222814	Taiwan	Granted	Methods and apparatus for wireless network connectivity	ATIS.3GPP.44.318V870-2010
6,990,324	United States	Granted	Methods and apparatus for selecting between multiple carriers using a single receiver chain tuned to a single carrier	ATIS.3GPP.25.331V8250-2016
2004319484	Australia	Granted	Methods and apparatus for selecting between multiple carriers using a single receiver chain tuned to a single carrier	ATIS.3GPP.25.331V8250-2016
PI0418747-4	Brazil	Pending	Methods and apparatus for selecting between multiple carriers using a single receiver chain tuned to a single carrier	ATIS.3GPP.25.331V8250-2016
9,118,358	United States	Granted	Methods and apparatus for selecting between multiple carriers using a single receiver chain tuned to a single carrier	ATIS.3GPP.25.331V8250-2016
2562680	Canada	Granted	Methods and apparatus for selecting between multiple carriers using a single receiver chain tuned to a single carrier	ATIS.3GPP.25.331V8250-2016
ZL200480043347.9	China P.R.	Granted	Methods and apparatus for selecting between multiple carriers using a single receiver chain tuned to a single carrier	ATIS.3GPP.25.331V8250-2016

ZL201010588497.5	China P.R.	Granted	Methods and apparatus for selecting between multiple carriers using a single receiver chain tuned to a single carrier	ATIS.3GPP.25.331V8250-2016
EP1735930	Germany	Granted	Methods and apparatus for selecting between multiple carriers using a single receiver chain tuned to a single carrier	ATIS.3GPP.25.331V8250-2016
EP2254255	Germany	Granted	Methods and apparatus for selecting between multiple carriers	ATIS.3GPP.25.331V8250-2016
EP1735930	European Patent Convention	Granted	Methods and apparatus for selecting between multiple carriers using a single receiver chain tuned to a single carrier	ATIS.3GPP.25.331V8250-2016
EP2254255	European Patent Convention	Granted	Methods and apparatus for selecting between multiple carriers	ATIS.3GPP.25.331V8250-2016
EP1735930	Great Britain	Granted	Methods and apparatus for selecting between multiple carriers using a single receiver chain tuned to a single carrier	ATIS.3GPP.25.331V8250-2016
EP2254255	Great Britain	Granted	Methods and apparatus for selecting between multiple carriers	ATIS.3GPP.25.331V8250-2016
W-00200602931	Indonesia	Pending	Methods and Apparatus for Selecting Between Multiple carriers Using a Single Receiver Chain Tuned to a Single Carrier	ATIS.3GPP.25.331V8250-2016
178605	Israel	Granted	Methods and apparatus for selecting between multiple carriers using a single receiver chain tuned to a single carrier	ATIS.3GPP.25.331V8250-2016
261177	India	Granted	Methods and apparatus for selecting between multiple carriers using a single receiver chain tuned to a single carrier	ATIS.3GPP.25.331V8250-2016
4903890	Japan	Granted	Methods and apparatus for selecting between multiple carriers using a single receiver chain tuned to a single carrier	ATIS.3GPP.25.331V8250-2016
5027324	Japan	Granted	Methods and apparatus for selecting between multiple carriers using a single receiver chain tuned to a single carrier	ATIS.3GPP.25.331V8250-2016
10-0883527	Republic of Korea	Granted	Methods and apparatus for selecting between multiple carriers using a single receiver chain tuned to a single carrier	ATIS.3GPP.25.331V8250-2016
260944	Mexico	Granted	Methods and apparatus for selecting between multiple carriers using a single receiver chain tuned to a single carrier	ATIS.3GPP.25.331V8250-2016
1-2006-502031	Philippines	Granted	Methods and apparatus for selecting between multiple carriers using a single receiver chain tuned to a single carrier	ATIS.3GPP.25.331V8250-2016
2369006	Russian Federation	Granted	Methods and apparatus for selecting between multiple carriers using a single receiver chain tuned to a single carrier	ATIS.3GPP.25.331V8250-2016
126990	Singapore	Granted	Methods and apparatus for selecting between multiple carriers using a single receiver chain tuned to a single carrier	ATIS.3GPP.25.331V8250-2016
89041	Ukraine	Granted	Methods and apparatus for selecting between multiple carriers using a single receiver chain tuned to a single carrier	ATIS.3GPP.25.331V8250-2016
7898	Vietnam	Granted	Methods and apparatus for selecting between multiple carriers using a single receiver chain tuned to a single carrier	ATIS.3GPP.25.331V8250-2016
9992	Vietnam	Granted	A portable communications device	ATIS.3GPP.25.331V8250-2016
2006/08583	South Africa	Granted	Methods and apparatus for selecting between multiple carriers using a single receiver chain tuned to a single carrier	ATIS.3GPP.25.331V8250-2016
8,488,602	United States	Granted	Methods and apparatus for transmitting group communication signals	ATIS.3GPP.25.331V8250-2016
2007-527939	Japan	Pending	Methods and apparatus for transmitting group communication signals	ATIS.3GPP.25.331V8250-2016
10-0884175	Republic of Korea	Granted	Methods and apparatus for transmitting group communication signals	ATIS.3GPP.25.331V8250-2016
8,488,602	United States	Granted	Methods and apparatus for transmitting group communication signals	ATIS.3GPP.25.346V840-2010
2007-527939	Japan	Pending	Methods and apparatus for transmitting group communication signals	ATIS.3GPP.25.346V840-2010

10-0884175	Republic of Korea	Granted	Methods and apparatus for transmitting group communication signals	ATIS.3GPP.25.346V840-2010
11/610,060	United States	Pending	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
EP1980126	Belgium	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
EP1980126	Bulgaria	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
ZL200680052968.2	China P.R.	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
ZL201210264026.8	China P.R.	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
13105708.7	Hong Kong	Pending	Methods and apparatus related to selecting a reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
EP1980126	Czech Republic	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
EP1980126	Germany	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
EP1980126	European Patent Convention	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
EP1980126	Spain	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
EP1980126	Finland	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
EP1980126	France	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
EP1980126	Great Britain	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
HK1122683	Hong Kong	Granted	Methods and apparatus related to selecting a reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
EP1980126	Hungary	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
EP1980126	Ireland	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
264780	India	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
1588/MUMNP/2013	India	Pending	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
EP1980126	Italy	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
5265386	Japan	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
5524286	Japan	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014

5628362	Japan	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
10-1013348	Republic of Korea	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
EP1980126	Netherlands	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
EP1980126	Poland	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
EP1980126	Romania	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
EP1980126	Sweden	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
I481235	Taiwan	Granted	Methods and apparatus related to selecting a reporting alternative in a request report	ATIS.3GPP.25.321V8170-2014
11/486,601	United States	Pending	Efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1964418	Austria	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1964418	Belgium	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1964418	Switzerland	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
ZL200680048038.X	China P.R.	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
ZL201210122256.0	China P.R.	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1964418	Germany	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2194742	Germany	Granted	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2209337	Germany	Granted	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2209336	Germany	Granted	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1964418	Denmark	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1964418	European Patent Convention	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2194742	European Patent Convention	Granted	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
10111235.0	Hong Kong	Pending	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2209337	European Patent Convention	Granted	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014

11100617.0	Hong Kong	Pending	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2209336	European Patent Convention	Granted	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
11100614.3	Hong Kong	Pending	Efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
14194480.1	European Patent Convention	Pending	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
15106136.5	Hong Kong	Pending	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1964418	Spain	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2194742	Spain	Granted	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2209336	Spain	Granted	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1964418	Finland	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1964418	France	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2194742	France	Granted	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2209336	France	Granted	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1964418	Great Britain	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2194742	Great Britain	Granted	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2209337	Great Britain	Granted	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2209336	Great Britain	Granted	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1964418	Greece	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
HK1123429	Hong Kong	Granted	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1964418	Hungary	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1964418	Ireland	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
259268	India	Granted	Method and apparatus for efficient reporting of information in a wireless communication system and a terminal thereof	ATIS.3GPP.25.321V8170-2014
1002/MUMNP/2013	India	Pending	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014

EP1964418	Italy	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2194742	Italy	Granted	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2209336	Italy	Granted	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
5107935	Japan	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
10-1060535	Republic of Korea	Granted	Efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1964418	Netherlands	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2194742	Netherlands	Granted	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP2209336	Netherlands	Granted	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1964418	Poland	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1964418	Portugal	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1964418	Romania	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
EP1964418	Sweden	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
I479812	Taiwan	Granted	Efficient reporting of information in a wireless communication system	ATIS.3GPP.25.321V8170-2014
11/487,054	United States	Pending	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.25.321V8170-2014
EP1972172	Belgium	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.25.321V8170-2014
EP1972172	Bulgaria	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.25.321V8170-2014
ZL200680048235.1	China P.R.	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.25.321V8170-2014
EP1972172	Czech Republic	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.25.321V8170-2014
9,338,795	United States	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.25.321V8170-2014
EP1972172	Germany	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.25.321V8170-2014
EP1972172	European Patent Convention	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.25.321V8170-2014
EP1972172	Spain	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.25.321V8170-2014
EP1972172	Finland	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.25.321V8170-2014
EP1972172	France	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.25.321V8170-2014
EP1972172	Great Britain	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.25.321V8170-2014
EP1972172	Hungary	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.25.321V8170-2014
EP1972172	Ireland	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.25.321V8170-2014
259344	India	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.25.321V8170-2014
EP1972172	Italy	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.25.321V8170-2014
5318580	Japan	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.25.321V8170-2014
5694209	Japan	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.25.321V8170-2014

10-1013349	Republic of Korea	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.25.321V8170-2014
EP1972172	Netherlands	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.25.321V8170-2014
EP1972172	Poland	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.25.321V8170-2014
EP1972172	Romania	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.25.321V8170-2014
EP1972172	Sweden	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.25.321V8170-2014
9,451,491	United States	Granted	METHODS AND APPARATUS RELATING TO GENERATING AND TRANSMITTING INITIAL AND ADDITIONAL CONTROL INFORMATION REPORT SETS IN A WIRELESS SYSTEM	ATIS.3GPP.25.321V8170-2014
ZL200680048245.5	China P.R.	Granted	Communications device control information reporting related methods and apparatus	ATIS.3GPP.25.321V8170-2014
201110242483.2	China P.R.	Pending	Communications device control information reporting related methods and apparatus	ATIS.3GPP.25.321V8170-2014
EP1964436	Germany	Granted	Communications device control information reporting related methods and apparatus	ATIS.3GPP.25.321V8170-2014
EP2150080	Germany	Granted	Communications device control information reporting related methods and apparatus	ATIS.3GPP.25.321V8170-2014
EP2131616	Germany	Granted	Methods and apparatus for reporting communications device control information	ATIS.3GPP.25.321V8170-2014
EP2131617	Germany	Granted	Methods and apparatus for reporting communications device control information	ATIS.3GPP.25.321V8170-2014
EP2141948	Germany	Granted	Methods and apparatus for reporting communications device control information	ATIS.3GPP.25.321V8170-2014
EP1964436	European Patent Convention	Granted	Communications device control information reporting related methods and apparatus	ATIS.3GPP.25.321V8170-2014
EP2150080	European Patent Convention	Granted	Communications device control information reporting related methods and apparatus	ATIS.3GPP.25.321V8170-2014
EP2131616	European Patent Convention	Granted	Methods and apparatus for reporting communications device control information	ATIS.3GPP.25.321V8170-2014
EP2131617	European Patent Convention	Granted	Methods and apparatus for reporting communications device control information	ATIS.3GPP.25.321V8170-2014
EP2141948	European Patent Convention	Granted	Methods and apparatus for reporting communications device control information	ATIS.3GPP.25.321V8170-2014
EP2150080	Spain	Granted	Communications device control information reporting related methods and apparatus	ATIS.3GPP.25.321V8170-2014
EP2131617	Spain	Granted	Methods and apparatus for reporting communications device control information	ATIS.3GPP.25.321V8170-2014
EP2150080	France	Granted	Communications device control information reporting related methods and apparatus	ATIS.3GPP.25.321V8170-2014
EP2131617	France	Granted	Methods and apparatus for reporting communications device control information	ATIS.3GPP.25.321V8170-2014
EP1964436	Great Britain	Granted	Communications device control information reporting related methods and apparatus	ATIS.3GPP.25.321V8170-2014
EP2150080	Great Britain	Granted	Communications device control information reporting related methods and apparatus	ATIS.3GPP.25.321V8170-2014

EP2131616	Great Britain	Granted	Methods and apparatus for reporting communications device control information	ATIS.3GPP.25.321V8170-2014
EP2131617	Great Britain	Granted	Methods and apparatus for reporting communications device control information	ATIS.3GPP.25.321V8170-2014
EP2141948	Great Britain	Granted	Methods and apparatus for reporting communications device control information	ATIS.3GPP.25.321V8170-2014
260188	India	Granted	Communications device control information reporting related methods and apparatus	ATIS.3GPP.25.321V8170-2014
EP2150080	Italy	Granted	Communications device control information reporting related methods and apparatus	ATIS.3GPP.25.321V8170-2014
EP2131617	Italy	Granted	Methods and apparatus for reporting communications device control information	ATIS.3GPP.25.321V8170-2014
5199119	Japan	Granted	Communications device control information reporting related methods and apparatus	ATIS.3GPP.25.321V8170-2014
5559267	Japan	Granted	Communications device control information reporting related methods and apparatus	ATIS.3GPP.25.321V8170-2014
10-1013351	Republic of Korea	Granted	Communications device control information reporting related methods and apparatus	ATIS.3GPP.25.321V8170-2014
7,558,572	United States	Granted	Methods and apparatus for determining and/or communicating parameter switching point information in wireless communications systems including wireless terminals supporting multiple wireless connections	ATIS.3GPP.25.214V8130-2014
P060105753	Argentina	Pending	Methods and apparatus for determining and/or communicating parameter switching point information in wireless communications systems including wireless terminals supporting multiple wireless connections	ATIS.3GPP.25.214V8130-2014
4755/DELNP/2008	India	Pending	Methods and apparatus for determining and/or communicating parameter switching point information in wireless communications systems including wireless terminals supporting multiple wireless connections	ATIS.3GPP.25.214V8130-2014
7,558,572	United States	Granted	Methods and apparatus for determining and/or communicating parameter switching point information in wireless communications systems including wireless terminals supporting multiple wireless connections	ATIS.3GPP.25.331V8250-2016
P060105753	Argentina	Pending	Methods and apparatus for determining and/or communicating parameter switching point information in wireless communications systems including wireless terminals supporting multiple wireless connections	ATIS.3GPP.25.331V8250-2016
4755/DELNP/2008	India	Pending	Methods and apparatus for determining and/or communicating parameter switching point information in wireless communications systems including wireless terminals supporting multiple wireless connections	ATIS.3GPP.25.331V8250-2016
8,099,099	United States	Granted	Methods and apparatus related to assignment in a wireless communications system	ATIS.3GPP.36.211V1240-2015
10672/DELNP/2008	India	Pending	Methods and apparatus related to assignment in a wireless communications system	ATIS.3GPP.36.211V1240-2015
8,099,099	United States	Granted	Methods and apparatus related to assignment in a wireless communications system	ATIS.3GPP.36.213V1240-2015
10672/DELNP/2008	India	Pending	Methods and apparatus related to assignment in a wireless communications system	ATIS.3GPP.36.213V1240-2015

8,275,377	United States	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.018V8170-2014
ZL200780012586.1	China P.R.	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.018V8170-2014
HK1131496	Hong Kong	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.018V8170-2014
EP2008478	Germany	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.018V8170-2014
EP2008478	European Patent Convention	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.018V8170-2014
EP2008478	Spain	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.018V8170-2014
EP2008478	France	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.018V8170-2014
EP2008478	Great Britain	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.018V8170-2014
263075	India	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.018V8170-2014
EP2008478	Italy	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.018V8170-2014
5275221	Japan	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.018V8170-2014
5653883	Japan	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.018V8170-2014
10-1078631	Republic of Korea	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.018V8170-2014
EP2008478	Netherlands	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.018V8170-2014
I397328	Taiwan	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.018V8170-2014
8,275,377	United States	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.060V8170-2014
ZL200780012586.1	China P.R.	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.060V8170-2014
HK1131496	Hong Kong	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.060V8170-2014
EP2008478	Germany	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.060V8170-2014
EP2008478	European Patent Convention	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.060V8170-2014
EP2008478	Spain	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.060V8170-2014
EP2008478	France	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.060V8170-2014
EP2008478	Great Britain	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.060V8170-2014
263075	India	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.060V8170-2014
EP2008478	Italy	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.060V8170-2014
5275221	Japan	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.060V8170-2014
5653883	Japan	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.060V8170-2014
10-1078631	Republic of Korea	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.060V8170-2014
EP2008478	Netherlands	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.060V8170-2014
I397328	Taiwan	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.44.060V8170-2014
8,275,377	United States	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.45.008V8160-2014
ZL200780012586.1	China P.R.	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.45.008V8160-2014
HK1131496	Hong Kong	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.45.008V8160-2014
EP2008478	Germany	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.45.008V8160-2014
EP2008478	European Patent Convention	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.45.008V8160-2014
EP2008478	Spain	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.45.008V8160-2014
EP2008478	France	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.45.008V8160-2014
EP2008478	Great Britain	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.45.008V8160-2014
263075	India	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.45.008V8160-2014
EP2008478	Italy	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.45.008V8160-2014

5275221	Japan	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.45.008V8160-2014
5653883	Japan	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.45.008V8160-2014
10-1078631	Republic of Korea	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.45.008V8160-2014
EP2008478	Netherlands	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.45.008V8160-2014
I397328	Taiwan	Granted	Wireless handoffs between multiple networks	ATIS.3GPP.45.008V8160-2014
8,948,393	United States	Granted	Uninterrupted transmission during a change in ciphering configuration	ATIS.3GPP.25.331V8250-2016
2007244719	Australia	Granted	Uninterrupted transmission during a change in ciphering configuration	ATIS.3GPP.25.331V8250-2016
PI0710828-1	Brazil	Pending	Uninterrupted transmission during a change in ciphering configuration	ATIS.3GPP.25.331V8250-2016
2644291	Canada	Pending	Uninterrupted transmission during a change in ciphering configuration	ATIS.3GPP.25.331V8250-2016
ZL200780012564.5	China P.R.	Granted	Uninterrupted transmission during a change in ciphering configuration	ATIS.3GPP.25.331V8250-2016
07761538.3	European Patent Convention	Pending	Uninterrupted transmission during a change in ciphering configuration	ATIS.3GPP.25.331V8250-2016
13020102.3	European Patent Convention	Pending	Uninterrupted transmission during a change in ciphering configuration	ATIS.3GPP.25.331V8250-2016
IDP0031056	Indonesia	Granted	Uninterrupted transmission during a change in ciphering configuration	ATIS.3GPP.25.331V8250-2016
193763	Israel	Granted	Uninterrupted transmission during a change in ciphering configuration	ATIS.3GPP.25.331V8250-2016
264073	India	Granted	Uninterrupted transmission during a change in ciphering configuration	ATIS.3GPP.25.331V8250-2016
2009-508003	Japan	Pending	Uninterrupted transmission during a change in ciphering configuration	ATIS.3GPP.25.331V8250-2016
5341222	Japan	Granted	Uninterrupted transmission during a change in ciphering configuration	ATIS.3GPP.25.331V8250-2016
10-1061746	Republic of Korea	Granted	Uninterrupted transmission during a change in ciphering configuration	ATIS.3GPP.25.331V8250-2016
289044	Mexico	Granted	Uninterrupted transmission during a change in ciphering configuration	ATIS.3GPP.25.331V8250-2016
MY-150255-A	Malaysia	Granted	Uninterrupted transmission during a change in ciphering configuration	ATIS.3GPP.25.331V8250-2016
1-2008-501981	Philippines	Granted	Uninterrupted transmission during a change in ciphering configuration	ATIS.3GPP.25.331V8250-2016
2406248	Russian Federation	Granted	Uninterrupted transmission during a change in ciphering configuration	ATIS.3GPP.25.331V8250-2016
146727	Singapore	Granted	Uninterrupted transmission during a change in ciphering configuration	ATIS.3GPP.25.331V8250-2016
93909	Ukraine	Granted	Uninterrupted transmission during a change in ciphering configuration	ATIS.3GPP.25.331V8250-2016
10231	Vietnam	Granted	Uninterrupted transmission during a change in ciphering configuration	ATIS.3GPP.25.331V8250-2016
9,118,529	United States	Granted	Discovery of neighbor cells	ATIS.3GPP.36.300V8120-2010
PI0713033-3	Brazil	Pending	Discovery of neighbor cells	ATIS.3GPP.36.300V8120-2010
2652899	Canada	Granted	Discovery of neighbor cells	ATIS.3GPP.36.300V8120-2010
201510900728.4	China P.R.	Pending	Discovery of neighbor cells	ATIS.3GPP.36.300V8120-2010
EP2030410	Germany	Granted	Discovery of neighbor cells	ATIS.3GPP.36.300V8120-2010
EP2030410	European Patent Convention	Granted	Discovery of neighbor cells	ATIS.3GPP.36.300V8120-2010
EP2030410	Spain	Granted	Discovery of neighbor cells	ATIS.3GPP.36.300V8120-2010
EP2030410	France	Granted	Discovery of neighbor cells	ATIS.3GPP.36.300V8120-2010
EP2030410	Great Britain	Granted	Discovery of neighbor cells	ATIS.3GPP.36.300V8120-2010
264729	India	Granted	Discovery of neighbor cells	ATIS.3GPP.36.300V8120-2010
EP2030410	Italy	Granted	Discovery of neighbor cells	ATIS.3GPP.36.300V8120-2010
5118135	Japan	Granted	Discovery of neighbor cells	ATIS.3GPP.36.300V8120-2010
10-1118805	Republic of Korea	Granted	Discovery of neighbor cells	ATIS.3GPP.36.300V8120-2010
2425466	Russian Federation	Granted	Discovery of neighbor cells	ATIS.3GPP.36.300V8120-2010
I383701	Taiwan	Granted	Discovery of neighbor cells	ATIS.3GPP.36.300V8120-2010

9,118,529	United States	Granted	Discovery of neighbor cells	ATIS.3GPP.36.331V8210-2016
PI0713033-3	Brazil	Pending	Discovery of neighbor cells	ATIS.3GPP.36.331V8210-2016
2652899	Canada	Granted	Discovery of neighbor cells	ATIS.3GPP.36.331V8210-2016
201510900728.4	China P.R.	Pending	Discovery of neighbor cells	ATIS.3GPP.36.331V8210-2016
EP2030410	Germany	Granted	Discovery of neighbor cells	ATIS.3GPP.36.331V8210-2016
EP2030410	European Patent Convention	Granted	Discovery of neighbor cells	ATIS.3GPP.36.331V8210-2016
EP2030410	Spain	Granted	Discovery of neighbor cells	ATIS.3GPP.36.331V8210-2016
EP2030410	France	Granted	Discovery of neighbor cells	ATIS.3GPP.36.331V8210-2016
EP2030410	Great Britain	Granted	Discovery of neighbor cells	ATIS.3GPP.36.331V8210-2016
264729	India	Granted	Discovery of neighbor cells	ATIS.3GPP.36.331V8210-2016
EP2030410	Italy	Granted	Discovery of neighbor cells	ATIS.3GPP.36.331V8210-2016
5118135	Japan	Granted	Discovery of neighbor cells	ATIS.3GPP.36.331V8210-2016
10-1118805	Republic of Korea	Granted	Discovery of neighbor cells	ATIS.3GPP.36.331V8210-2016
2425466	Russian Federation	Granted	Discovery of neighbor cells	ATIS.3GPP.36.331V8210-2016
I383701	Taiwan	Granted	Discovery of neighbor cells	ATIS.3GPP.36.331V8210-2016
8,625,601	United States	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
2007285802	Australia	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
EP2087633	Belgium	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
PI0716618-4	Brazil	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
2658583	Canada	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
ZL200780030600.0	China P.R.	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
HK1134183	Hong Kong	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
EP2087633	Germany	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
EP2087633	European Patent Convention	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
EP2087633	Spain	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
EP2087633	Finland	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
EP2087633	France	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
EP2087633	Great Britain	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
EP2087633	Hungary	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014

IDP0028425	Indonesia	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
EP2087633	Ireland	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
614/DELNP/2009	India	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
EP2087633	Italy	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
4971446	Japan	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
10-1073210	Republic of Korea	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
286349	Mexico	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
PI20090285	Malaysia	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
EP2087633	Netherlands	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
EP2087633	Poland	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
EP2087633	Romania	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
2436247	Russian Federation	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
EP2087633	Sweden	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
150004	Singapore	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
I373940	Taiwan	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
95114	Ukraine	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
1-2009-00406	Vietnam	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.321V8170-2014
8,625,601	United States	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
2007285802	Australia	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
EP2087633	Belgium	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
PI0716618-4	Brazil	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
2658583	Canada	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016

ZL200780030600.0	China P.R.	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
HK1134183	Hong Kong	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
EP2087633	Germany	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
EP2087633	European Patent Convention	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
EP2087633	Spain	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
EP2087633	Finland	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
EP2087633	France	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
EP2087633	Great Britain	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
EP2087633	Hungary	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
IDP0028425	Indonesia	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
EP2087633	Ireland	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
614/DELNP/2009	India	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
EP2087633	Italy	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
4971446	Japan	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
10-1073210	Republic of Korea	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
286349	Mexico	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
PI20090285	Malaysia	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
EP2087633	Netherlands	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
EP2087633	Poland	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
EP2087633	Romania	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
2436247	Russian Federation	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
EP2087633	Sweden	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016

150004	Singapore	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
I373940	Taiwan	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
95114	Ukraine	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
1-2009-00406	Vietnam	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.25.331V8250-2016
8,363,606	United States	Granted	Method and apparatus for data and control multiplexing	ATIS.3GPP.36.212V1230-2015
PI0716159-0	Brazil	Pending	Method and apparatus for data symbol and control symbol multiplexing	ATIS.3GPP.36.212V1230-2015
9,094,969	United States	Granted	Method and apparatus for data and control multiplexing	ATIS.3GPP.36.212V1230-2015
ZL200780037030.8	China P.R.	Granted	Method and apparatus for data symbol and control symbol multiplexing	ATIS.3GPP.36.212V1230-2015
ZL201210151034.1	China P.R.	Granted	Method and apparatus for data symbol and control symbol multiplexing	ATIS.3GPP.36.212V1230-2015
13102539.9	Hong Kong	Pending	Method and apparatus for data symbol and control symbol multiplexing	ATIS.3GPP.36.212V1230-2015
11005004.4	European Patent Convention	Pending	Method and apparatus for data and control multiplexing	ATIS.3GPP.36.212V1230-2015
4903872	Japan	Granted	Method and apparatus for data symbol and control symbol multiplexing	ATIS.3GPP.36.212V1230-2015
10-1111209	Republic of Korea	Granted	Method and apparatus for data symbol and control symbol multiplexing	ATIS.3GPP.36.212V1230-2015
MX/a/2009/002406	Mexico	Pending	Method and apparatus for data symbol and control symbol multiplexing	ATIS.3GPP.36.212V1230-2015
2009112395	Russian Federation	Pending	Method and apparatus for data symbol and control symbol multiplexing	ATIS.3GPP.36.212V1230-2015
200903216	Ukraine	Pending	Method and apparatus for data symbol and control symbol multiplexing	ATIS.3GPP.36.212V1230-2015
1-2009-00613	Vietnam	Pending	Method and apparatus for data symbol and control symbol multiplexing	ATIS.3GPP.36.212V1230-2015
8,130,705	United States	Granted	Method and apparatus for service capability modification	ATIS.3GPP.25.331V8250-2016
8,792,443	United States	Granted	Method and apparatus for service capability modification	ATIS.3GPP.25.331V8250-2016
ZL200780033932.4	China P.R.	Granted	Method and apparatus for service capability modification	ATIS.3GPP.25.331V8250-2016
ZL201210084362.4	China P.R.	Granted	Method and apparatus for service capability modification	ATIS.3GPP.25.331V8250-2016
07842317.5	European Patent Convention	Pending	Method and apparatus for service capability modification	ATIS.3GPP.25.331V8250-2016
269105	India	Granted	Method and apparatus for service capability modification	ATIS.3GPP.25.331V8250-2016
5161223	Japan	Granted	Method and apparatus for service capability modification	ATIS.3GPP.25.331V8250-2016
5539447	Japan	Granted	Method and apparatus for service capability modification	ATIS.3GPP.25.331V8250-2016
10-1096945	Republic of Korea	Granted	Method and apparatus for service capability modification	ATIS.3GPP.25.331V8250-2016
I387387	Taiwan	Granted	Method and apparatus for service capability modification	ATIS.3GPP.25.331V8250-2016
8,094,554	United States	Granted	Compressed mode operation and power control with discontinuous transmission and/or reception	ATIS.3GPP.25.321V8170-2014
PI0717725-9	Brazil	Pending	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.321V8170-2014
2664518	Canada	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.321V8170-2014
2763015	Canada	Granted	Compressed mode operation and power control with discontinuous transmission and/or reception	ATIS.3GPP.25.321V8170-2014
ZL200780039431.7	China P.R.	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.321V8170-2014
8,971,181	United States	Granted	Compressed mode operation and power control with discontinuous transmission and/or reception	ATIS.3GPP.25.321V8170-2014
14/511,530	United States	Pending	Compressed mode operation and power control with discontinuous transmission and/or reception	ATIS.3GPP.25.321V8170-2014

EP2087763	Germany	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.321V8170-2014
EP2087763	European Patent Convention	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.321V8170-2014
EP2087763	Spain	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.321V8170-2014
EP2087763	France	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.321V8170-2014
EP2087763	Great Britain	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.321V8170-2014
263783	India	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.321V8170-2014
EP2087763	Italy	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.321V8170-2014
5204114	Japan	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.321V8170-2014
5678108	Japan	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.321V8170-2014
5632024	Japan	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.321V8170-2014
5635140	Japan	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.321V8170-2014
10-1079401	Republic of Korea	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.321V8170-2014
2469511	Russian Federation	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.321V8170-2014
I360354	Taiwan	Granted	Compressed mode operation and power control with discontinuous transmission and/or reception	ATIS.3GPP.25.321V8170-2014
8,094,554	United States	Granted	Compressed mode operation and power control with discontinuous transmission and/or reception	ATIS.3GPP.25.331V8250-2016
PI0717725-9	Brazil	Pending	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.331V8250-2016
2664518	Canada	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.331V8250-2016
2763015	Canada	Granted	Compressed mode operation and power control with discontinuous transmission and/or reception	ATIS.3GPP.25.331V8250-2016
ZL200780039431.7	China P.R.	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.331V8250-2016
8,971,181	United States	Granted	Compressed mode operation and power control with discontinuous transmission and/or reception	ATIS.3GPP.25.331V8250-2016
14/511,530	United States	Pending	Compressed mode operation and power control with discontinuous transmission and/or reception	ATIS.3GPP.25.331V8250-2016
EP2087763	Germany	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.331V8250-2016
EP2087763	European Patent Convention	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.331V8250-2016
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EP2087763	France	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.331V8250-2016
EP2087763	Great Britain	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.331V8250-2016
263783	India	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.331V8250-2016
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5204114	Japan	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.331V8250-2016
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5632024	Japan	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.331V8250-2016
5635140	Japan	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.331V8250-2016
10-1079401	Republic of Korea	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.331V8250-2016
2469511	Russian Federation	Granted	Compressed mode (CM) with continuous packet connectivity (CPC)	ATIS.3GPP.25.331V8250-2016
I360354	Taiwan	Granted	Compressed mode operation and power control with discontinuous transmission and/or reception	ATIS.3GPP.25.331V8250-2016

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EP2090135	Belgium	Granted	Inter-enode B handover procedure	ATIS.3GPP.25.331V8250-2016
PI0717727-5	Brazil	Pending	Inter-enode B handover procedure	ATIS.3GPP.25.331V8250-2016
14/316,720	United States	Pending	Inter-eNode B handover procedure	ATIS.3GPP.25.331V8250-2016
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EP2090135	Germany	Granted	Inter-enode B handover procedure	ATIS.3GPP.25.331V8250-2016
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EP2090135	Greece	Granted	Inter-enode B handover procedure	ATIS.3GPP.25.331V8250-2016
EP2090135	Hungary	Granted	Inter-enode B handover procedure	ATIS.3GPP.25.331V8250-2016
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8,804,656	United States	Granted	Inter-enode B handover procedure	ATIS.3GPP.25.423V8140-2016
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5518962	Japan	Granted	Inter-enode B handover procedure	ATIS.3GPP.25.433V8140-2016
10-1036393	Republic of Korea	Granted	Inter-enode B handover procedure	ATIS.3GPP.25.433V8140-2016
302699	Mexico	Granted	Inter-enode B handover procedure	ATIS.3GPP.25.433V8140-2016
304964	Mexico	Granted	Inter-enode B handover procedure	ATIS.3GPP.25.433V8140-2016
MY-148183-A	Malaysia	Granted	Inter-enode B handover procedure	ATIS.3GPP.25.433V8140-2016
PI 212004788	Malaysia	Pending	Inter-enode B handover procedure	ATIS.3GPP.25.433V8140-2016
EP2090135	Netherlands	Granted	Inter-enode B handover procedure	ATIS.3GPP.25.433V8140-2016
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1-2013-500507	Philippines	Pending	Inter-enode B handover procedure	ATIS.3GPP.25.433V8140-2016
EP2090135	Poland	Granted	Inter-enode B handover procedure	ATIS.3GPP.25.433V8140-2016
EP2090135	Portugal	Granted	Inter-enode B handover procedure	ATIS.3GPP.25.433V8140-2016
EP2090135	Romania	Granted	Inter-enode B handover procedure	ATIS.3GPP.25.433V8140-2016
2441347	Russian Federation	Granted	Inter-enode B handover procedure	ATIS.3GPP.25.433V8140-2016
EP2090135	Sweden	Granted	Inter-enode B handover procedure	ATIS.3GPP.25.433V8140-2016
151778	Singapore	Granted	Inter-enode B handover procedure	ATIS.3GPP.25.433V8140-2016
201107909-2	Singapore	Pending	Inter-enode B handover procedure	ATIS.3GPP.25.433V8140-2016

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1-2015-02286	Vietnam	Pending	Inter-enode B handover procedure	ATIS.3GPP.25.433V8140-2016
8,804,656	United States	Granted	Inter-enode B handover procedure	ATIS.3GPP.25.453V830-2016
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2007313739	Australia	Granted	Inter-enode B handover procedure	ATIS.3GPP.25.453V830-2016
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EP2090135	Belgium	Granted	Inter-enode B handover procedure	ATIS.3GPP.25.453V830-2016
PI0717727-5	Brazil	Pending	Inter-enode B handover procedure	ATIS.3GPP.25.453V830-2016
14/316,720	United States	Pending	Inter-eNode B handover procedure	ATIS.3GPP.25.453V830-2016
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EP2090135	Switzerland	Granted	Inter-enode B handover procedure	ATIS.3GPP.25.453V830-2016
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EP2090135	Great Britain	Granted	Inter-enode B handover procedure	ATIS.3GPP.25.453V830-2016
EP2090135	Greece	Granted	Inter-enode B handover procedure	ATIS.3GPP.25.453V830-2016
EP2090135	Hungary	Granted	Inter-enode B handover procedure	ATIS.3GPP.25.453V830-2016
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8,804,656	United States	Granted	Inter-enode B handover procedure	ATIS.3GPP.48.008V8100-2014
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PI0717727-5	Brazil	Pending	Inter-enode B handover procedure	ATIS.3GPP.48.008V8100-2014
14/316,720	United States	Pending	Inter-eNode B handover procedure	ATIS.3GPP.48.008V8100-2014
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8,804,656	United States	Granted	Inter-enode B handover procedure	ATIS.3GPP.48.018V8110-2014
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8,705,441	United States	Granted	Joint use of multi-carrier and single-carrier multiplexing schemes for wireless communication	ATIS.3GPP.36.212V1230-2015
EP2078402	Austria	Granted	Joint use of multi-carrier and single-carrier multiplexing schemes for wireless communication	ATIS.3GPP.36.212V1230-2015

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268997	India	Granted	Joint use of multi-carrier and single-carrier multiplexing schemes for wireless communication	ATIS.3GPP.36.212V1230-2015
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151816	Singapore	Granted	Joint use of multi-carrier and single-carrier multiplexing schemes for wireless communication	ATIS.3GPP.36.212V1230-2015
I383631	Taiwan	Granted	Method, apparatus, and processor readable media for joint use of multi-carrier and single-carrier multiplexing schemes for wireless communication	ATIS.3GPP.36.212V1230-2015
7,995,534	United States	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.413V880-2012
PI0718869-2	Brazil	Pending	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.413V880-2012
2667611	Canada	Granted	Method and apparatus for serving radio network subsystem relocation in wireless communication systems	ATIS.3GPP.25.413V880-2012
ZL200780041294.0	China P.R.	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.413V880-2012
EP2095667	Germany	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.413V880-2012
EP2095667	European Patent Convention	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.413V880-2012
EP2095667	Spain	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.413V880-2012
EP2095667	France	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.413V880-2012
EP2095667	Great Britain	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.413V880-2012
266295	India	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.413V880-2012
EP2095667	Italy	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.413V880-2012
5405612	Japan	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.413V880-2012
10-1097532	Republic of Korea	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.413V880-2012
2419254	Russian Federation	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.413V880-2012
7,995,534	United States	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.423V8140-2016
PI0718869-2	Brazil	Pending	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.423V8140-2016
2667611	Canada	Granted	Method and apparatus for serving radio network subsystem relocation in wireless communication systems	ATIS.3GPP.25.423V8140-2016
ZL200780041294.0	China P.R.	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.423V8140-2016
EP2095667	Germany	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.423V8140-2016
EP2095667	European Patent Convention	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.423V8140-2016
EP2095667	Spain	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.423V8140-2016
EP2095667	France	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.423V8140-2016
EP2095667	Great Britain	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.423V8140-2016
266295	India	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.423V8140-2016
EP2095667	Italy	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.423V8140-2016
5405612	Japan	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.423V8140-2016
10-1097532	Republic of Korea	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.423V8140-2016
2419254	Russian Federation	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.25.423V8140-2016

8,515,478	United States	Granted	Fast state transition for a UE with reconfiguration over paging	ATIS.3GPP.25.331V8250-2016
PI0721155-4	Brazil	Pending	Fast state transition for a UE with reconfiguration over paging	ATIS.3GPP.25.331V8250-2016
2670947	Canada	Granted	Fast state transition for a UE with reconfiguration over paging	ATIS.3GPP.25.331V8250-2016
ZL200780046658.4	China P.R.	Granted	Fast state transition for a UE with reconfiguration over paging	ATIS.3GPP.25.331V8250-2016
07869382.7	European Patent Convention	Pending	Fast state transition for a UE with reconfiguration over paging	ATIS.3GPP.25.331V8250-2016
2974/CHENP/2009	India	Pending	Fast state transition for a UE with reconfiguration over paging	ATIS.3GPP.25.331V8250-2016
5074519	Japan	Granted	Fast state transition for a UE with reconfiguration over paging	ATIS.3GPP.25.331V8250-2016
10-1076595	Republic of Korea	Granted	Fast state transition for a UE with reconfiguration over paging	ATIS.3GPP.25.331V8250-2016
2437257	Russian Federation	Granted	Fast state transition for a UE with reconfiguration over paging	ATIS.3GPP.25.331V8250-2016
I444062	Taiwan	Granted	Fast state transition for a UE with reconfiguration over paging	ATIS.3GPP.25.331V8250-2016
8,755,313	United States	Granted	Using DTX and DRX in a wireless communication system	ATIS.3GPP.25.321V8170-2014
PI0806527-6	Brazil	Pending	Using DTX and DRX in a wireless communication system	ATIS.3GPP.25.321V8170-2014
9,432,942	United States	Granted	Using DTX and DRX in a wireless communication system	ATIS.3GPP.25.321V8170-2014
15/214,239	United States	Pending	Using DTX and DRX in a wireless communication system	ATIS.3GPP.25.321V8170-2014
2674429	Canada	Granted	Using DTX and DRX in a wireless communication system	ATIS.3GPP.25.321V8170-2014
ZL200880002069.0	China P.R.	Granted	Using DTX and DRX in a wireless communication system	ATIS.3GPP.25.321V8170-2014
10106920.0	Hong Kong	Pending	Using DTX and DRX in a wireless communication system	ATIS.3GPP.25.321V8170-2014
08713734.5	European Patent Convention	Pending	Using DTX and DRX in a wireless communication system	ATIS.3GPP.25.321V8170-2014
12174555.8	European Patent Convention	Pending	Using DTX and DRX in a wireless communication system	ATIS.3GPP.25.321V8170-2014
4148/DELNP/2009	India	Pending	Using DTX and DRX in a wireless communication system	ATIS.3GPP.25.321V8170-2014
5886073	Japan	Granted	Using DTX and DRX in a wireless communication system	ATIS.3GPP.25.321V8170-2014
2015-080188	Japan	Pending	Using DTX and DRX in a wireless communication system	ATIS.3GPP.25.321V8170-2014
10-1122368	Republic of Korea	Granted	Using DTX and DRX in a wireless communication system	ATIS.3GPP.25.321V8170-2014
297097	Mexico	Granted	Using DTX and DRX in a wireless communication system	ATIS.3GPP.25.321V8170-2014
PI20092670	Malaysia	Pending	Using DTX and DRX in a wireless communication system	ATIS.3GPP.25.321V8170-2014
2438256	Russian Federation	Granted	Using DTX and DRX in a wireless communication system	ATIS.3GPP.25.321V8170-2014
200908337	Ukraine	Pending	Using DTX and DRX in a wireless communication system	ATIS.3GPP.25.321V8170-2014
1-2009-01706	Vietnam	Pending	Using DTX and DRX in a wireless communication system	ATIS.3GPP.25.321V8170-2014
8,457,064	United States	Granted	Methods and apparatus for RF handoff in a multi-frequency network	ATIS.3GPP.36.300V8120-2010
ZL200880008722.4	China P.R.	Granted	Handoff in a multi-frequency network	ATIS.3GPP.36.300V8120-2010
5226767	Japan	Granted	Handoff in a multi-frequency network	ATIS.3GPP.36.300V8120-2010
10-1095783	Republic of Korea	Granted	Handoff in a multi-frequency network	ATIS.3GPP.36.300V8120-2010
I391005	Taiwan	Granted	Methods and apparatus for RF handoff in a multi-frequency network	ATIS.3GPP.36.300V8120-2010
8,737,350	United States	Granted	Methods and apparatus for RF handoff in a multi-frequency network	ATIS.3GPP.36.300V8120-2010
PI0813277-1	Brazil	Pending	Handoff in a multi-frequency network	ATIS.3GPP.36.300V8120-2010
ZL200880008729.6	China P.R.	Granted	Handoff in a multi-frequency network	ATIS.3GPP.36.300V8120-2010
5038493	Japan	Granted	Handoff in a multi-frequency network	ATIS.3GPP.36.300V8120-2010
10-1133423	Republic of Korea	Granted	Handoff in a multi-frequency network	ATIS.3GPP.36.300V8120-2010
MX/a/2009/011832	Mexico	Pending	Handoff in a multi-frequency network	ATIS.3GPP.36.300V8120-2010
PI 20093552	Malaysia	Pending	Handoff in a multi-frequency network	ATIS.3GPP.36.300V8120-2010

2010101666	Russian Federation	Pending	Handoff in a multi-frequency network	ATIS.3GPP.36.300V8120-2010
1-2009-02432	Vietnam	Pending	Handoff in a multi-frequency network	ATIS.3GPP.36.300V8120-2010
8,750,248	United States	Granted	Methods and apparatus for RF handoff in a multi-frequency network	ATIS.3GPP.36.300V8120-2010
ZL200980115981.1	China P.R.	Granted	RF channel handoff in a multi-frequency network	ATIS.3GPP.36.300V8120-2010
1888/MUMNP/2010	India	Pending	RF channel handoff in a multi-frequency network	ATIS.3GPP.36.300V8120-2010
5209743	Japan	Granted	RF channel handoff in a multi-frequency network	ATIS.3GPP.36.300V8120-2010
10-1186136	Republic of Korea	Granted	RF channel handoff in a multi-frequency network	ATIS.3GPP.36.300V8120-2010
8,948,757	United States	Granted	Methods and apparatus for RF handoff in a multi-frequency network	ATIS.3GPP.36.300V8120-2010
ZL200980116108.4	China P.R.	Granted	Handoff in a multi-frequency network	ATIS.3GPP.36.300V8120-2010
1897/MUMNP/2010	India	Pending	Handoff in a multi-frequency network	ATIS.3GPP.36.300V8120-2010
5221683	Japan	Granted	Handoff in a multi-frequency network	ATIS.3GPP.36.300V8120-2010
10-1167873	Republic of Korea	Granted	Handoff in a multi-frequency network	ATIS.3GPP.36.300V8120-2010
8,737,353	United States	Granted	METHODS AND APPARATUS FOR RF HANDOFF IN A MULTI-FREQUENCY NETWORK	ATIS.3GPP.36.300V8120-2010
8,670,762	United States	Granted	Fast serving cell change	ATIS.3GPP.25.321V8170-2014
EP2135478	Austria	Granted	Fast serving cell change	ATIS.3GPP.25.321V8170-2014
2008242854	Australia	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.321V8170-2014
EP2135478	Belgium	Granted	Fast serving cell change	ATIS.3GPP.25.321V8170-2014
PI0810141-8	Brazil	Pending	Fast HSDPA serving cell change	ATIS.3GPP.25.321V8170-2014
2682556	Canada	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.321V8170-2014
EP2135478	Switzerland	Granted	Fast serving cell change	ATIS.3GPP.25.321V8170-2014
ZL200880012189.9	China P.R.	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.321V8170-2014
HK1141393	Hong Kong	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.321V8170-2014
EP2135478	Germany	Granted	Fast serving cell change	ATIS.3GPP.25.321V8170-2014
EP2135478	Denmark	Granted	Fast serving cell change	ATIS.3GPP.25.321V8170-2014
EP2135478	European Patent Convention	Granted	Fast serving cell change	ATIS.3GPP.25.321V8170-2014
EP2135478	Spain	Granted	Fast serving cell change	ATIS.3GPP.25.321V8170-2014
EP2135478	Finland	Granted	Fast serving cell change	ATIS.3GPP.25.321V8170-2014
EP2135478	France	Granted	Fast serving cell change	ATIS.3GPP.25.321V8170-2014
EP2135478	Great Britain	Granted	Fast serving cell change	ATIS.3GPP.25.321V8170-2014
EP2135478	Greece	Granted	Fast serving cell change	ATIS.3GPP.25.321V8170-2014
EP2135478	Hungary	Granted	Fast serving cell change	ATIS.3GPP.25.321V8170-2014
IDP0031449	Indonesia	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.321V8170-2014
EP2135478	Ireland	Granted	Fast serving cell change	ATIS.3GPP.25.321V8170-2014
201102	Israel	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.321V8170-2014
274541	India	Granted	Handoff in a communication network	ATIS.3GPP.25.321V8170-2014
EP2135478	Italy	Granted	Fast serving cell change	ATIS.3GPP.25.321V8170-2014
5204213	Japan	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.321V8170-2014
10-1247553	Republic of Korea	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.321V8170-2014
299131	Mexico	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.321V8170-2014

301353	Mexico	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.321V8170-2014
EP2135478	Netherlands	Granted	Fast serving cell change	ATIS.3GPP.25.321V8170-2014
EP2135478	Norway	Granted	Fast serving cell change	ATIS.3GPP.25.321V8170-2014
1-2009-501898	Philippines	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.321V8170-2014
EP2135478	Poland	Granted	Fast serving cell change	ATIS.3GPP.25.321V8170-2014
EP2135478	Portugal	Granted	Fast serving cell change	ATIS.3GPP.25.321V8170-2014
EP2135478	Romania	Granted	Fast serving cell change	ATIS.3GPP.25.321V8170-2014
2467508	Russian Federation	Granted	Fast serving cell change	ATIS.3GPP.25.321V8170-2014
EP2135478	Sweden	Granted	Fast serving cell change	ATIS.3GPP.25.321V8170-2014
155635	Singapore	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.321V8170-2014
1386081	Taiwan	Granted	Fast serving cell change	ATIS.3GPP.25.321V8170-2014
95355	Ukraine	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.321V8170-2014
11278	Vietnam	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.321V8170-2014
8,670,762	United States	Granted	Fast serving cell change	ATIS.3GPP.25.331V8250-2016
EP2135478	Austria	Granted	Fast serving cell change	ATIS.3GPP.25.331V8250-2016
2008242854	Australia	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.331V8250-2016
EP2135478	Belgium	Granted	Fast serving cell change	ATIS.3GPP.25.331V8250-2016
PI0810141-8	Brazil	Pending	Fast HSDPA serving cell change	ATIS.3GPP.25.331V8250-2016
2682556	Canada	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.331V8250-2016
EP2135478	Switzerland	Granted	Fast serving cell change	ATIS.3GPP.25.331V8250-2016
ZL200880012189.9	China P.R.	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.331V8250-2016
HK1141393	Hong Kong	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.331V8250-2016
EP2135478	Germany	Granted	Fast serving cell change	ATIS.3GPP.25.331V8250-2016
EP2135478	Denmark	Granted	Fast serving cell change	ATIS.3GPP.25.331V8250-2016
EP2135478	European Patent Convention	Granted	Fast serving cell change	ATIS.3GPP.25.331V8250-2016
EP2135478	Spain	Granted	Fast serving cell change	ATIS.3GPP.25.331V8250-2016
EP2135478	Finland	Granted	Fast serving cell change	ATIS.3GPP.25.331V8250-2016
EP2135478	France	Granted	Fast serving cell change	ATIS.3GPP.25.331V8250-2016
EP2135478	Great Britain	Granted	Fast serving cell change	ATIS.3GPP.25.331V8250-2016
EP2135478	Greece	Granted	Fast serving cell change	ATIS.3GPP.25.331V8250-2016
EP2135478	Hungary	Granted	Fast serving cell change	ATIS.3GPP.25.331V8250-2016
IDP0031449	Indonesia	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.331V8250-2016
EP2135478	Ireland	Granted	Fast serving cell change	ATIS.3GPP.25.331V8250-2016
201102	Israel	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.331V8250-2016
274541	India	Granted	Handoff in a communication network	ATIS.3GPP.25.331V8250-2016
EP2135478	Italy	Granted	Fast serving cell change	ATIS.3GPP.25.331V8250-2016
5204213	Japan	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.331V8250-2016
10-1247553	Republic of Korea	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.331V8250-2016
299131	Mexico	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.331V8250-2016
301353	Mexico	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.331V8250-2016

EP2135478	Netherlands	Granted	Fast serving cell change	ATIS.3GPP.25.331V8250-2016
EP2135478	Norway	Granted	Fast serving cell change	ATIS.3GPP.25.331V8250-2016
1-2009-501898	Philippines	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.331V8250-2016
EP2135478	Poland	Granted	Fast serving cell change	ATIS.3GPP.25.331V8250-2016
EP2135478	Portugal	Granted	Fast serving cell change	ATIS.3GPP.25.331V8250-2016
EP2135478	Romania	Granted	Fast serving cell change	ATIS.3GPP.25.331V8250-2016
2467508	Russian Federation	Granted	Fast serving cell change	ATIS.3GPP.25.331V8250-2016
EP2135478	Sweden	Granted	Fast serving cell change	ATIS.3GPP.25.331V8250-2016
155635	Singapore	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.331V8250-2016
I386081	Taiwan	Granted	Fast serving cell change	ATIS.3GPP.25.331V8250-2016
95355	Ukraine	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.331V8250-2016
11278	Vietnam	Granted	Fast HSDPA serving cell change	ATIS.3GPP.25.331V8250-2016
8,767,872	United States	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2158715	Austria	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2391050	Austria	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2158715	Belgium	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2391050	Belgium	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
14/313,838	United States	Pending	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2158715	Switzerland	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2391050	Switzerland	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
ZL200880016601.4	China P.R.	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
ZL201210385838.8	China P.R.	Granted	A METHOD AND APPARATUS FOR WIRELESS COMMUNICATION	ATIS.3GPP.36.212V1230-2015
HK1179782	Hong Kong	Granted	A method and apparatus for wireless communication	ATIS.3GPP.36.212V1230-2015
HK1142739	Hong Kong	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2158715	Germany	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2391050	Germany	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2158715	Denmark	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2391050	Denmark	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2158715	European Patent Convention	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2391050	European Patent Convention	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2158715	Spain	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2391050	Spain	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2158715	Finland	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2391050	Finland	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2158715	France	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2391050	France	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2158715	Great Britain	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2391050	Great Britain	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2158715	Greece	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2391050	Greece	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015

EP2158715	Hungary	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2391050	Hungary	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2158715	Ireland	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2391050	Ireland	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
6305/CHENP/2009	India	Pending	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
2416/CHENP/2015	India	Pending	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2158715	Italy	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2391050	Italy	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
2012-234962	Japan	Pending	Method and Apparatus for Uplink Control Channel Multiplexing and Power Control	ATIS.3GPP.36.212V1230-2015
2014-187873	Japan	Pending	Method and Apparatus for Uplink Control Channel Multiplexing and Power Control	ATIS.3GPP.36.212V1230-2015
2015-029751	Japan	Pending	Method and Apparatus for Uplink Control Channel Multiplexing and Power Control	ATIS.3GPP.36.212V1230-2015
2016-075841	Japan	Pending	Method and Apparatus for Uplink Control Channel Multiplexing and Power Control	ATIS.3GPP.36.212V1230-2015
10-1121366	Republic of Korea	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2158715	Netherlands	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2391050	Netherlands	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2158715	Norway	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2391050	Norway	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2158715	Poland	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2391050	Poland	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2158715	Portugal	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2391050	Portugal	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2158715	Romania	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2391050	Romania	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2158715	Sweden	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
EP2391050	Sweden	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
I530131	Taiwan	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
103126988	Taiwan	Pending	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
105124672	Taiwan	Pending	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.212V1230-2015
12/124,541	United States	Pending	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
2008261655	Australia	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
2012202567	Australia	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
PI0812408-6	Brazil	Pending	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
2690614	Canada	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
2809199	Canada	Pending	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
ZL200880019818.0	China P.R.	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
HK1144630	Hong Kong	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
EP2171905	Germany	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012

EP2549673	Germany	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
EP2171905	European Patent Convention	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
EP2549673	European Patent Convention	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
EP2171905	Spain	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
EP2549673	Spain	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
EP2171905	France	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
EP2549673	France	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
EP2171905	Great Britain	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
EP2549673	Great Britain	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
IDP0035610	Indonesia	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
227957	Israel	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
6851/CHENP/2009	India	Pending	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
EP2171905	Italy	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
EP2549673	Italy	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
5059940	Japan	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
10-1142645	Republic of Korea	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
304459	Mexico	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
PI 2012000789	Malaysia	Pending	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
EP2549673	Netherlands	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
2441327	Russian Federation	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
157021	Singapore	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
182209	Singapore	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
I390886	Taiwan	Granted	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
201000230	Ukraine	Pending	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
1-2009-02699	Vietnam	Pending	Protocol data unit recovery	ATIS.3GPP.25.322V890-2012
8,081,603	United States	Granted	Compression static and semi-static context transfer	ATIS.3GPP.36.323V860-2010
PI0813713-7	Brazil	Pending	Static and semi-static compression context transfer	ATIS.3GPP.36.323V860-2010
7715/CHENP/2009	India	Granted	Static and semi-static compression context transfer	ATIS.3GPP.36.323V860-2010
MX/a/2010/000705	Mexico	Pending	Static and semi-static compression context transfer	ATIS.3GPP.36.323V860-2010
1-2010-00309	Vietnam	Pending	Static and semi-static compression context transfer	ATIS.3GPP.36.323V860-2010
8,340,121	United States	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.322V890-2012
2008288782	Australia	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.322V890-2012
PI0815573-9	Brazil	Pending	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.322V890-2012
2694997	Canada	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.322V890-2012
ZL200880103906.9	China P.R.	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.322V890-2012

11100557.2	Hong Kong	Pending	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.322V890-2012
EP2186248	Germany	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.322V890-2012
EP2186248	European Patent Convention	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.322V890-2012
EP2186248	Great Britain	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.322V890-2012
ID0029844	Indonesia	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.322V890-2012
588/CHENP/2010	India	Pending	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.322V890-2012
4965710	Japan	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.322V890-2012
10-1082703	Republic of Korea	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.322V890-2012
298022	Mexico	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.322V890-2012
PI 2010000453	Malaysia	Pending	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.322V890-2012
1-2010-500401	Philippines	Pending	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.322V890-2012
2450484	Russian Federation	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.322V890-2012
158974	Singapore	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.322V890-2012
I419505	Taiwan	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.322V890-2012
95854	Ukraine	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.322V890-2012
1-2010-00660	Vietnam	Pending	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.322V890-2012
8,340,121	United States	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.323V850-2010
2008288782	Australia	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.323V850-2010
PI0815573-9	Brazil	Pending	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.323V850-2010
2694997	Canada	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.323V850-2010
ZL200880103906.9	China P.R.	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.323V850-2010
11100557.2	Hong Kong	Pending	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.323V850-2010

EP2186248	Germany	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.323V850-2010
EP2186248	European Patent Convention	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.323V850-2010
EP2186248	Great Britain	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.323V850-2010
ID0029844	Indonesia	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.323V850-2010
588/CHENP/2010	India	Pending	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.323V850-2010
4965710	Japan	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.323V850-2010
10-1082703	Republic of Korea	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.323V850-2010
298022	Mexico	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.323V850-2010
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158974	Singapore	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.323V850-2010
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95854	Ukraine	Granted	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.323V850-2010
1-2010-00660	Vietnam	Pending	Method and apparatus for transmission of circuit switched voice over packet switched networks	ATIS.3GPP.25.323V850-2010
8,848,656	United States	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
2008322589	Australia	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
2012216407	Australia	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
PI0819808-0	Brazil	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
2705337	Canada	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
2809193	Canada	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
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15108896.1	Hong Kong	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
11105734.7	Hong Kong	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
14/484,932	United States	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
08850451.9	European Patent Convention	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
IDP000037642	Indonesia	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014

205632	Israel	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
228173	Israel	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
2920/CHENP/2010	India	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
2013-156102	Japan	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
2016-000268	Japan	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
10-1212611	Republic of Korea	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
302701	Mexico	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
311208	Mexico	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
MY-157035-A	Malaysia	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
585201	New Zealand	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
1-2010-501060	Philippines	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
1-2013-500704	Philippines	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
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161535	Singapore	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
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I481274	Taiwan	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
97563	Ukraine	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
100626	Ukraine	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
11641	Vietnam	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
1-2013-01297	Vietnam	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.24.008V8190-2014
8,848,656	United States	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.25.331V8250-2016
2008322589	Australia	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.25.331V8250-2016
2012216407	Australia	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.25.331V8250-2016
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2705337	Canada	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.25.331V8250-2016
2809193	Canada	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.25.331V8250-2016
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14/484,932	United States	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.25.331V8250-2016
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100626	Ukraine	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.25.331V8250-2016
11641	Vietnam	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.25.331V8250-2016
1-2013-01297	Vietnam	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.25.331V8250-2016
12/269,666	United States	Pending	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
EP2218278	Austria	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
2008322443	Australia	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
EP2218278	Belgium	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
PI0820206-0	Brazil	Pending	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
2703886	Canada	Pending	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
EP2218278	Switzerland	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
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EP2218278	Germany	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
EP2218278	Denmark	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
EP2218278	European Patent Convention	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
EP2218278	Spain	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
EP2218278	Finland	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
EP2218278	France	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
EP2218278	Great Britain	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
EP2218278	Greece	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
EP2218278	Hungary	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
IDP0031323	Indonesia	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
EP2218278	Ireland	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
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310532	Mexico	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
MY-154331-A	Malaysia	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016

EP2218278	Netherlands	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
EP2218278	Norway	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
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EP2218278	Portugal	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
EP2218278	Romania	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
2456771	Russian Federation	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
EP2218278	Sweden	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
160898	Singapore	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
I400973	Taiwan	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
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11817	Vietnam	Granted	Resolving node identifier confusion	ATIS.3GPP.25.331V8250-2016
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EP2218278	Belgium	Granted	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012
PI0820206-0	Brazil	Pending	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012
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EP2218278	Germany	Granted	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012
EP2218278	Denmark	Granted	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012
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EP2218278	Spain	Granted	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012
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EP2218278	France	Granted	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012
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EP2218278	Greece	Granted	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012
EP2218278	Hungary	Granted	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012
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EP2218278	Ireland	Granted	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012
205530	Israel	Granted	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012
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5155407	Japan	Granted	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012
10-1313739	Republic of Korea	Granted	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012
310532	Mexico	Granted	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012
MY-154331-A	Malaysia	Granted	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012
EP2218278	Netherlands	Granted	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012

EP2218278	Norway	Granted	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012
1-2010-500923	Philippines	Granted	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012
EP2218278	Poland	Granted	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012
EP2218278	Portugal	Granted	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012
EP2218278	Romania	Granted	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012
2456771	Russian Federation	Granted	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012
EP2218278	Sweden	Granted	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012
160898	Singapore	Granted	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012
I400973	Taiwan	Granted	Revolving node identifier confusion	ATIS.3GPP.25.467V860-2012
99316	Ukraine	Granted	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012
11817	Vietnam	Granted	Resolving node identifier confusion	ATIS.3GPP.25.467V860-2012
EP2209272	Austria	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
2008298613	Australia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
2011202935	Australia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
2013260644	Australia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
2013260645	Australia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
2013260646	Australia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
2013260647	Australia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
2013260648	Australia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
2011202938	Australia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
2011202940	Australia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
2011202942	Australia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209272	Belgium	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
PI0816696-0	Brazil	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
BR1220120024635	Brazil	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
BR1220120024643	Brazil	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
BR1220120024660	Brazil	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
BR1220120024651	Brazil	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
8,374,156	United States	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
13/765,622	United States	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
2696297	Canada	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
2803074	Canada	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
2803121	Canada	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
2802955	Canada	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
2803437	Canada	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209272	Switzerland	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
ZL200880107028.8	China P.R.	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
ZL201210152722.X	China P.R.	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
HK1174450	Hong Kong	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
ZL201210154699.8	China P.R.	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014

13103361.0	Hong Kong	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
ZL201210152781.7	China P.R.	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
ZL201210154748.8	China P.R.	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
13103360.1	Hong Kong	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
201410474467.X	China P.R.	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
HK1146166	Hong Kong	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
9,313,683	United States	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
9,185,594	United States	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
13/725,990	United States	Pending	USER DIVERSITY FOR MUROS CALLERS	ATIS.3GPP.44.018V8170-2014
EP2204027	Germany	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209272	Germany	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209273	Germany	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209274	Germany	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2230808	Germany	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2544422	Germany	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209272	Denmark	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2204027	European Patent Convention	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209272	European Patent Convention	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209273	European Patent Convention	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209274	European Patent Convention	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2230808	European Patent Convention	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2544422	European Patent Convention	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2204027	Spain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209272	Spain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209274	Spain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2544422	Spain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2204027	Finland	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209272	Finland	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2544422	Finland	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2204027	France	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209272	France	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209274	France	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2544422	France	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2204027	Great Britain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209272	Great Britain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209273	Great Britain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209274	Great Britain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2230808	Great Britain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2544422	Great Britain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209272	Greece	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014

EP2204027	Hungary	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209272	Hungary	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2544422	Hungary	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
IDP0033453	Indonesia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209272	Ireland	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
203785	Israel	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
227700	Israel	Granted	Method and apparatus for identifying if a remote station is MUROS capable	ATIS.3GPP.44.018V8170-2014
228119	Israel	Granted	Method and apparatus for establishing user diversity for muos callers	ATIS.3GPP.44.018V8170-2014
1205/CHENP/2010	India	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2204027	Italy	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209272	Italy	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209274	Italy	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2544422	Italy	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
5405472	Japan	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
5646678	Japan	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
5563120	Japan	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
5730936	Japan	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
5475159	Japan	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
5563121	Japan	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
2013-169284	Japan	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
10-1100952	Republic of Korea	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
10-1114063	Republic of Korea	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
10-1114105	Republic of Korea	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
10-1114132	Republic of Korea	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
10-1100015	Republic of Korea	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209272	Liechtenstein	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
301521	Mexico	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
317351	Mexico	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
317352	Mexico	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
317739	Mexico	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
304323	Mexico	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
MY-150326-A	Malaysia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2204027	Netherlands	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
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EP2209274	Netherlands	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2544422	Netherlands	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209272	Norway	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
1-2010-500357	Philippines	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209272	Poland	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014
EP2209272	Portugal	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.44.018V8170-2014

13/765,622	United States	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
2696297	Canada	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
2803074	Canada	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
2803121	Canada	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
2802955	Canada	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
2803437	Canada	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2209272	Switzerland	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
ZL200880107028.8	China P.R.	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
ZL201210152722.X	China P.R.	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
HK1174450	Hong Kong	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
ZL201210154699.8	China P.R.	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
13103361.0	Hong Kong	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
ZL201210152781.7	China P.R.	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
ZL201210154748.8	China P.R.	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
13103360.1	Hong Kong	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
201410474467.X	China P.R.	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
HK1146166	Hong Kong	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
9,313,683	United States	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
9,185,594	United States	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
13/725,990	United States	Pending	USER DIVERSITY FOR MUROS CALLERS	ATIS.3GPP.45.001V810-2010
EP2204027	Germany	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2209272	Germany	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2209273	Germany	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2209274	Germany	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2230808	Germany	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2544422	Germany	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2209272	Denmark	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2204027	European Patent Convention	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2209272	European Patent Convention	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
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EP2209274	European Patent Convention	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
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EP2544422	European Patent Convention	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
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EP2209272	Spain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2209274	Spain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2544422	Spain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2204027	Finland	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2209272	Finland	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2544422	Finland	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010

EP2204027	France	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2209272	France	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2209274	France	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2544422	France	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2204027	Great Britain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
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EP2209273	Great Britain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
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EP2544422	Great Britain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2209272	Greece	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2204027	Hungary	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2209272	Hungary	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2544422	Hungary	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
IDP0033453	Indonesia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2209272	Ireland	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
203785	Israel	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
227700	Israel	Granted	Method and apparatus for identifying if a remote station is MUROS capable	ATIS.3GPP.45.001V810-2010
228119	Israel	Granted	Method and apparatus for establishing user diversity for muos callers	ATIS.3GPP.45.001V810-2010
1205/CHENP/2010	India	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2204027	Italy	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2209272	Italy	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2209274	Italy	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2544422	Italy	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
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5563121	Japan	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
2013-169284	Japan	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
10-1100952	Republic of Korea	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
10-1114063	Republic of Korea	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
10-1114105	Republic of Korea	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
10-1114132	Republic of Korea	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
10-1100015	Republic of Korea	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2209272	Liechtenstein	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
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317351	Mexico	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
317352	Mexico	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010

317739	Mexico	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
304323	Mexico	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
MY-150326-A	Malaysia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2204027	Netherlands	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2209272	Netherlands	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2209274	Netherlands	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2544422	Netherlands	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2209272	Norway	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
1-2010-500357	Philippines	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2209272	Poland	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2209272	Portugal	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2209272	Romania	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
2452119	Russian Federation	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
2510144	Russian Federation	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
2509429	Russian Federation	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
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EP2209272	Sweden	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
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186631	Singapore	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
186632	Singapore	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2544422	Turkey	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
I459746	Taiwan	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
I511505	Taiwan	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
I508481	Taiwan	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
I528748	Taiwan	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
97858	Ukraine	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
101893	Ukraine	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
102604	Ukraine	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
101892	Ukraine	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
102021	Ukraine	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
13291	Vietnam	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.001V810-2010
EP2209272	Austria	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
2008298613	Australia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
2011202935	Australia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
2013260644	Australia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
2013260645	Australia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
2013260646	Australia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
2013260647	Australia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010

2013260648	Australia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
2011202938	Australia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
2011202940	Australia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
2011202942	Australia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209272	Belgium	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
PI0816696-0	Brazil	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
BR1220120024635	Brazil	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
BR1220120024643	Brazil	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
BR1220120024660	Brazil	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
BR1220120024651	Brazil	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
8,374,156	United States	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
13/765,622	United States	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
2696297	Canada	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
2803074	Canada	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
2803121	Canada	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
2802955	Canada	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
2803437	Canada	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209272	Switzerland	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
ZL200880107028.8	China P.R.	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
ZL201210152722.X	China P.R.	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
HK1174450	Hong Kong	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
ZL201210154699.8	China P.R.	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
13103361.0	Hong Kong	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
ZL201210152781.7	China P.R.	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
ZL201210154748.8	China P.R.	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
13103360.1	Hong Kong	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
201410474467.X	China P.R.	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
HK1146166	Hong Kong	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
9,313,683	United States	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
9,185,594	United States	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
13/725,990	United States	Pending	USER DIVERSITY FOR MUROS CALLERS	ATIS.3GPP.45.004V800-2010
EP2204027	Germany	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209272	Germany	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209273	Germany	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209274	Germany	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2230808	Germany	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2544422	Germany	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209272	Denmark	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2204027	European Patent Convention	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209272	European Patent Convention	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010

EP2209273	European Patent Convention	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209274	European Patent Convention	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2230808	European Patent Convention	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2544422	European Patent Convention	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2204027	Spain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209272	Spain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209274	Spain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2544422	Spain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2204027	Finland	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209272	Finland	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2544422	Finland	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2204027	France	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209272	France	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209274	France	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2544422	France	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2204027	Great Britain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209272	Great Britain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209273	Great Britain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209274	Great Britain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2230808	Great Britain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2544422	Great Britain	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209272	Greece	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2204027	Hungary	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209272	Hungary	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2544422	Hungary	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
IDP0033453	Indonesia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209272	Ireland	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
203785	Israel	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
227700	Israel	Granted	Method and apparatus for identifying if a remote station is MUROS capable	ATIS.3GPP.45.004V800-2010
228119	Israel	Granted	Method and apparatus for establishing user diversity for muos callers	ATIS.3GPP.45.004V800-2010
1205/CHENP/2010	India	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2204027	Italy	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209272	Italy	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209274	Italy	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2544422	Italy	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
5405472	Japan	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
5646678	Japan	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
5563120	Japan	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
5730936	Japan	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
5475159	Japan	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010

5563121	Japan	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
2013-169284	Japan	Pending	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
10-1100952	Republic of Korea	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
10-1114063	Republic of Korea	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
10-1114105	Republic of Korea	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
10-1114132	Republic of Korea	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
10-1100015	Republic of Korea	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209272	Liechtenstein	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
301521	Mexico	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
317351	Mexico	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
317352	Mexico	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
317739	Mexico	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
304323	Mexico	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
MY-150326-A	Malaysia	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2204027	Netherlands	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209272	Netherlands	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209274	Netherlands	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2544422	Netherlands	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209272	Norway	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
1-2010-500357	Philippines	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209272	Poland	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209272	Portugal	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209272	Romania	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
2452119	Russian Federation	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
2510144	Russian Federation	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
2509429	Russian Federation	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
2509430	Russian Federation	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2209272	Sweden	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
159134	Singapore	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
186629	Singapore	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
186630	Singapore	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
186631	Singapore	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
186632	Singapore	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
EP2544422	Turkey	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
I459746	Taiwan	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
I511505	Taiwan	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
I508481	Taiwan	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
I528748	Taiwan	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
97858	Ukraine	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
101893	Ukraine	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010

102604	Ukraine	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
101892	Ukraine	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
102021	Ukraine	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
13291	Vietnam	Granted	Capacity increasing devices and methods for wireless communication	ATIS.3GPP.45.004V800-2010
8,284,734	United States	Granted	Methods for intra base station handover optimizations	ATIS.3GPP.36.323V860-2010
PI0817455-5	Brazil	Pending	Methods for intra base station handover optimizations	ATIS.3GPP.36.323V860-2010
8,437,312	United States	Granted	Methods for intra base station handover optimizations	ATIS.3GPP.36.323V860-2010
ZL200880108401.1	China P.R.	Granted	Methods for intra base station handover optimizations	ATIS.3GPP.36.323V860-2010
ZL201310159691.5	China P.R.	Granted	Methods for intra base station handover optimizations	ATIS.3GPP.36.323V860-2010
11101000.3	Hong Kong	Pending	Methods for intra base station handover optimizations	ATIS.3GPP.36.323V860-2010
08836437.7	European Patent Convention	Pending	Methods for intra base station handover optimizations	ATIS.3GPP.36.323V860-2010
1287/CHENP/2010	India	Pending	Methods for intra base station handover optimizations	ATIS.3GPP.36.323V860-2010
4991939	Japan	Granted	Methods for intra base station handover optimizations	ATIS.3GPP.36.323V860-2010
10-1139992	Republic of Korea	Granted	Methods for intra base station handover optimizations	ATIS.3GPP.36.323V860-2010
MX/a/2010/003245	Mexico	Pending	Methods for intra base station handover optimizations	ATIS.3GPP.36.323V860-2010
2010116766	Russian Federation	Pending	Methods for intra base station handover optimizations	ATIS.3GPP.36.323V860-2010
201005127	Ukraine	Pending	Methods for intra base station handover optimizations	ATIS.3GPP.36.323V860-2010
1-2010-01074	Vietnam	Pending	Methods for intra base station handover optimizations	ATIS.3GPP.36.323V860-2010
8,260,249	United States	Granted	Method and apparatus of power control for a public warning system	ATIS.3GPP.25.331V8250-2016
EP2191675	Austria	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.25.331V8250-2016
EP2191675	Belgium	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.25.331V8250-2016
PI0817058-4	Brazil	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.25.331V8250-2016
2696412	Canada	Granted	Method and apparatus of power control for a public warning system	ATIS.3GPP.25.331V8250-2016
EP2191675	Switzerland	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.25.331V8250-2016
ZL200880107533.2	China P.R.	Granted	Method and apparatus of power control for a public warning system	ATIS.3GPP.25.331V8250-2016
11100536.8	Hong Kong	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.25.331V8250-2016
8,824,996	United States	Granted	Method and apparatus of power control for a public warning system	ATIS.3GPP.25.331V8250-2016
EP2191675	Germany	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.25.331V8250-2016
EP2191675	Denmark	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.25.331V8250-2016
EP2191675	European Patent Convention	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.25.331V8250-2016
EP2191675	Spain	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.25.331V8250-2016
EP2191675	Finland	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.25.331V8250-2016
EP2191675	France	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.25.331V8250-2016
EP2191675	Great Britain	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.25.331V8250-2016
EP2191675	Greece	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.25.331V8250-2016
EP2191675	Hungary	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.25.331V8250-2016
EP2191675	Ireland	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.25.331V8250-2016
782/CHENP/2010	India	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.25.331V8250-2016
EP2191675	Italy	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.25.331V8250-2016
5813322	Japan	Granted	Method and apparatus of power control for a public warning system	ATIS.3GPP.25.331V8250-2016

2014-151193	Japan	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.25.331V8250-2016
10-1179178	Republic of Korea	Granted	Method and apparatus for a public warning system	ATIS.3GPP.25.331V8250-2016
302705	Mexico	Granted	Method and apparatus of power control for a public warning system	ATIS.3GPP.25.331V8250-2016
EP2191675	Netherlands	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.25.331V8250-2016
EP2191675	Norway	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.25.331V8250-2016
EP2191675	Poland	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.25.331V8250-2016
EP2191675	Portugal	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.25.331V8250-2016
EP2191675	Romania	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.25.331V8250-2016
2461995	Russian Federation	Granted	Method and apparatus of power control for a public warning system	ATIS.3GPP.25.331V8250-2016
EP2191675	Sweden	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.25.331V8250-2016
I387243	Taiwan	Granted	Method and apparatus of power control for a public warning system	ATIS.3GPP.25.331V8250-2016
1-2010-00961	Vietnam	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.25.331V8250-2016
8,588,738	United States	Granted	Mobile access in a diverse access point network	ATIS.3GPP.25.304V8120-2012
PI0818416-0	Brazil	Pending	Mobile access in a diverse access point network	ATIS.3GPP.25.304V8120-2012
9,125,139	United States	Granted	Mobile access in a diverse access point network	ATIS.3GPP.25.304V8120-2012
ZL200880118764.3	China P.R.	Granted	Mobile access in a diverse access point network	ATIS.3GPP.25.304V8120-2012
201510203001.0	China P.R.	Pending	Mobile access in a diverse access point network	ATIS.3GPP.25.304V8120-2012
11104217.6	Hong Kong	Pending	Mobile access in a diverse access point network	ATIS.3GPP.25.304V8120-2012
08835586.2	European Patent Convention	Pending	Mobile access in a diverse access point network	ATIS.3GPP.25.304V8120-2012
1792/CHENP/2010	India	Pending	Mobile access in a diverse access point network	ATIS.3GPP.25.304V8120-2012
5175356	Japan	Granted	Mobile access in a diverse access point network	ATIS.3GPP.25.304V8120-2012
10-1498980	Republic of Korea	Granted	Mobile access in a diverse access point network	ATIS.3GPP.25.304V8120-2012
10-1639423	Republic of Korea	Granted	Mobile access in a diverse access point network	ATIS.3GPP.25.304V8120-2012
10-1639427	Republic of Korea	Granted	Mobile access in a diverse access point network	ATIS.3GPP.25.304V8120-2012
MX/a/2010/003407	Mexico	Pending	Mobile access in a diverse access point network	ATIS.3GPP.25.304V8120-2012
96850	Ukraine	Granted	Mobile access in a diverse access point network	ATIS.3GPP.25.304V8120-2012
1-2010-01107	Vietnam	Pending	Mobile access in a diverse access point network	ATIS.3GPP.25.304V8120-2012
8,867,455	United States	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
2008308786	Australia	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2206397	Belgium	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
PI0818524-7	Brazil	Pending	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
2698798	Canada	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2206397	Switzerland	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
ZL200880109639.6	China P.R.	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
ZL201310133750.1	China P.R.	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
11110275.2	Hong Kong	Pending	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2206397	Germany	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2206397	Denmark	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2206397	European Patent Convention	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2206397	Spain	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016

EP2206397	Finland	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2206397	France	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2206397	Great Britain	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2206397	Greece	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2206397	Hungary	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
IDP0032900	Indonesia	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2206397	Ireland	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
204472	Israel	Pending	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
1321/CHENP/2010	India	Pending	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2206397	Italy	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
5399399	Japan	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
10-1140515	Republic of Korea	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
10-1200015	Republic of Korea	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
293263	Mexico	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2206397	Netherlands	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2206397	Norway	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2206397	Poland	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2206397	Portugal	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2206397	Romania	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
2446637	Russian Federation	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2206397	Sweden	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
159800	Singapore	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
I386078	Taiwan	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
95180	Ukraine	Granted	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
1-2010-00834	Vietnam	Pending	Enhanced uplink for inactive state in a wireless communication system	ATIS.3GPP.25.331V8250-2016
8,948,749	United States	Granted	System and method to facilitate acquisition of access point base stations	ATIS.3GPP.45.008V8160-2014
PI0818442-9	Brazil	Pending	System and method to facilitate acquisition of access point base stations	ATIS.3GPP.45.008V8160-2014
ZL200880117340.5	China P.R.	Granted	System and method to facilitate acquisition of access point base stations	ATIS.3GPP.45.008V8160-2014
11103816.3	Hong Kong	Pending	System and method to facilitate acquisition of access point base stations	ATIS.3GPP.45.008V8160-2014
W-00201001571	Indonesia	Pending	System and method to facilitate acquisition of access point base stations	ATIS.3GPP.45.008V8160-2014
2271/CHENP/2010	India	Pending	System and method to facilitate acquisition of access point base stations	ATIS.3GPP.45.008V8160-2014
5345628	Japan	Granted	System and method to facilitate acquisition of access point base stations	ATIS.3GPP.45.008V8160-2014
10-1170240	Republic of Korea	Granted	System and method to facilitate acquisition of access point base stations	ATIS.3GPP.45.008V8160-2014
MX/a/2010/003963	Mexico	Pending	System and method to facilitate acquisition of access point base stations	ATIS.3GPP.45.008V8160-2014
2010119065	Russian Federation	Pending	System and method to facilitate acquisition of access point base stations	ATIS.3GPP.45.008V8160-2014
201005716	Ukraine	Pending	System and method to facilitate acquisition of access point base stations	ATIS.3GPP.45.008V8160-2014
1-2010-01191	Vietnam	Pending	System and method to facilitate acquisition of access point base stations	ATIS.3GPP.45.008V8160-2014
8,254,244	United States	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.300V8120-2010
2008318862	Australia	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.300V8120-2010

PI0818134-9	Brazil	Pending	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.300V8120-2010
-	United States	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.300V8120-2010
2702294	Canada	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.300V8120-2010
ZL200880114166.9	China P.R.	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.300V8120-2010
201310249991.2	China P.R.	Pending	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.300V8120-2010
14102747.6	Hong Kong	Pending	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.300V8120-2010
HK1146989	Hong Kong	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.300V8120-2010
08843665.4	European Patent Convention	Pending	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.300V8120-2010
IDP0033457	Indonesia	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.300V8120-2010
205227	Israel	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.300V8120-2010
1955/CHENP/2010	India	Pending	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.300V8120-2010
5199378	Japan	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.300V8120-2010
10-1115212	Republic of Korea	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.300V8120-2010
303410	Mexico	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.300V8120-2010
MY-152411-A	Malaysia	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.300V8120-2010
1-2010-500743	Philippines	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.300V8120-2010
2451404	Russian Federation	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.300V8120-2010
160762	Singapore	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.300V8120-2010
I415412	Taiwan	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.300V8120-2010
98355	Ukraine	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.300V8120-2010
12958	Vietnam	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.300V8120-2010
9,264,976	United States	Granted	Preamble design for a wireless signal	ATIS.3GPP.25.331V8250-2016
2008321215	Australia	Granted	Preamble design for a wireless signal	ATIS.3GPP.25.331V8250-2016

PI0820191-9	Brazil	Pending	Preamble design for a wireless signal	ATIS.3GPP.25.331V8250-2016
ZL200880124897.1	China P.R.	Granted	Preamble design for a wireless signal	ATIS.3GPP.25.331V8250-2016
11105678.5	Hong Kong	Pending	Preamble design for a wireless signal	ATIS.3GPP.25.331V8250-2016
EP2213125	Germany	Granted	Preamble design for a wireless signal	ATIS.3GPP.25.331V8250-2016
EP2213125	European Patent Convention	Granted	Preamble design for a wireless signal	ATIS.3GPP.25.331V8250-2016
EP2213125	France	Granted	Preamble design for a wireless signal	ATIS.3GPP.25.331V8250-2016
EP2213125	Great Britain	Granted	Preamble design for a wireless signal	ATIS.3GPP.25.331V8250-2016
W-00201002019	Indonesia	Pending	Preamble design for a wireless signal	ATIS.3GPP.25.331V8250-2016
231832	Israel	Granted	Preamble design for a wireless signal	ATIS.3GPP.25.331V8250-2016
2991/CHENP/2010	India	Pending	Preamble design for a wireless signal	ATIS.3GPP.25.331V8250-2016
5341099	Japan	Granted	Preamble design for a wireless signal	ATIS.3GPP.25.331V8250-2016
5710573	Japan	Granted	Preamble design for a wireless signal	ATIS.3GPP.25.331V8250-2016
2013-112994	Japan	Pending	Preamble design for a wireless signal	ATIS.3GPP.25.331V8250-2016
2015-062985	Japan	Pending	Preamble design for a wireless signal	ATIS.3GPP.25.331V8250-2016
10-1321774	Republic of Korea	Granted	Preamble design for a wireless signal	ATIS.3GPP.25.331V8250-2016
300695	Mexico	Granted	Preamble design for a wireless signal	ATIS.3GPP.25.331V8250-2016
2454038	Russian Federation	Granted	Preamble design for a wireless signal	ATIS.3GPP.25.331V8250-2016
161540	Singapore	Granted	Preamble design for a wireless signal	ATIS.3GPP.25.331V8250-2016
I429313	Taiwan	Granted	Preamble design for a wireless signal	ATIS.3GPP.25.331V8250-2016
99157	Ukraine	Granted	Preamble design for a wireless signal	ATIS.3GPP.25.331V8250-2016
11865	Vietnam	Granted	Preamble design for a wireless signal	ATIS.3GPP.25.331V8250-2016
9,264,976	United States	Granted	Preamble design for a wireless signal	ATIS.3GPP.45.008V8160-2014
2008321215	Australia	Granted	Preamble design for a wireless signal	ATIS.3GPP.45.008V8160-2014
PI0820191-9	Brazil	Pending	Preamble design for a wireless signal	ATIS.3GPP.45.008V8160-2014
ZL200880124897.1	China P.R.	Granted	Preamble design for a wireless signal	ATIS.3GPP.45.008V8160-2014
11105678.5	Hong Kong	Pending	Preamble design for a wireless signal	ATIS.3GPP.45.008V8160-2014
EP2213125	Germany	Granted	Preamble design for a wireless signal	ATIS.3GPP.45.008V8160-2014
EP2213125	European Patent Convention	Granted	Preamble design for a wireless signal	ATIS.3GPP.45.008V8160-2014
EP2213125	France	Granted	Preamble design for a wireless signal	ATIS.3GPP.45.008V8160-2014
EP2213125	Great Britain	Granted	Preamble design for a wireless signal	ATIS.3GPP.45.008V8160-2014
W-00201002019	Indonesia	Pending	Preamble design for a wireless signal	ATIS.3GPP.45.008V8160-2014
231832	Israel	Granted	Preamble design for a wireless signal	ATIS.3GPP.45.008V8160-2014
2991/CHENP/2010	India	Pending	Preamble design for a wireless signal	ATIS.3GPP.45.008V8160-2014
5341099	Japan	Granted	Preamble design for a wireless signal	ATIS.3GPP.45.008V8160-2014
5710573	Japan	Granted	Preamble design for a wireless signal	ATIS.3GPP.45.008V8160-2014
2013-112994	Japan	Pending	Preamble design for a wireless signal	ATIS.3GPP.45.008V8160-2014
2015-062985	Japan	Pending	Preamble design for a wireless signal	ATIS.3GPP.45.008V8160-2014
10-1321774	Republic of Korea	Granted	Preamble design for a wireless signal	ATIS.3GPP.45.008V8160-2014
300695	Mexico	Granted	Preamble design for a wireless signal	ATIS.3GPP.45.008V8160-2014
2454038	Russian Federation	Granted	Preamble design for a wireless signal	ATIS.3GPP.45.008V8160-2014

161540	Singapore	Granted	Preamble design for a wireless signal	ATIS.3GPP.45.008V8160-2014
I429313	Taiwan	Granted	Preamble design for a wireless signal	ATIS.3GPP.45.008V8160-2014
99157	Ukraine	Granted	Preamble design for a wireless signal	ATIS.3GPP.45.008V8160-2014
11865	Vietnam	Granted	Preamble design for a wireless signal	ATIS.3GPP.45.008V8160-2014
8,149,773	United States	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2245899	Austria	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2245899	Belgium	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
PI0822120-0	Brazil	Pending	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
2709522	Canada	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2245899	Switzerland	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
ZL200880123874.9	China P.R.	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
11105792.6	Hong Kong	Pending	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
8,605,675	United States	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2245899	Germany	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2846598	Germany	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2245899	Denmark	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2245899	European Patent Convention	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2846598	European Patent Convention	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2245899	Spain	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2846598	Spain	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2245899	Finland	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2846598	Finland	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2245899	France	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2846598	France	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2245899	Great Britain	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2846598	Great Britain	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2245899	Greece	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2245899	Hungary	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2846598	Hungary	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2245899	Ireland	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
2921/CHENP/2010	India	Pending	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2245899	Italy	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2846598	Italy	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
5149395	Japan	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
10-1254058	Republic of Korea	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2245899	Netherlands	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2846598	Netherlands	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2245899	Norway	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2245899	Poland	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2245899	Portugal	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014

EP2245899	Romania	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
2462839	Russian Federation	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2245899	Sweden	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
EP2846598	Turkey	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
I383699	Taiwan	Granted	Resource allocation for enhanced uplink using an acquisition indicator channel	ATIS.3GPP.25.321V8170-2014
PI0821916-8	Brazil	Pending	Resource allocation for enhanced uplink using a shared control channel	ATIS.3GPP.25.321V8170-2014
2706312	Canada	Granted	Resource allocation for enhanced uplink using a shared control channel	ATIS.3GPP.25.321V8170-2014
ZL200880123885.7	China P.R.	Granted	Resource allocation for enhanced uplink using a shared control channel	ATIS.3GPP.25.321V8170-2014
11105793.5	Hong Kong	Pending	Resource allocation for enhanced uplink using a shared control channel	ATIS.3GPP.25.321V8170-2014
08870235.2	European Patent Convention	Pending	Resource allocation for enhanced uplink using a shared control channel	ATIS.3GPP.25.321V8170-2014
2987/CHENP/2010	India	Pending	Resource allocation for enhanced uplink using a shared control channel	ATIS.3GPP.25.321V8170-2014
5639205	Japan	Granted	Resource allocation for enhanced uplink using a shared control channel	ATIS.3GPP.25.321V8170-2014
10-1213183	Republic of Korea	Granted	Resource allocation for enhanced uplink using a shared control channel	ATIS.3GPP.25.321V8170-2014
2465744	Russian Federation	Granted	Resource allocation for enhanced uplink using a shared control channel	ATIS.3GPP.25.321V8170-2014
I378735	Taiwan	Granted	Resource allocation for enhanced uplink using a shared control channel	ATIS.3GPP.25.321V8170-2014
8,780,704	United States	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
EP2229800	Austria	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
2009203958	Australia	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
EP2229800	Belgium	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
PI0906773-6	Brazil	Pending	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
2706314	Canada	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
2881059	Canada	Pending	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
EP2229800	Switzerland	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
ZL200980101917.8	China P.R.	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
11105676.7	Hong Kong	Pending	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
EP2229800	Germany	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
EP2229800	Denmark	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
EP2229800	European Patent Convention	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
EP2229800	Spain	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
EP2229800	Finland	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
EP2229800	France	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
EP2229800	Great Britain	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
EP2229800	Greece	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
EP2229800	Hungary	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
IDP000037542	Indonesia	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
EP2229800	Ireland	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
205653	Israel	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
2916/CHENP/2010	India	Pending	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
EP2229800	Italy	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
5529228	Japan	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014

10-1215471	Republic of Korea	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
296821	Mexico	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
MY-154736-A	Malaysia	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
EP2229800	Netherlands	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
EP2229800	Norway	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
1-2010-501240	Philippines	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
EP2229800	Poland	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
EP2229800	Portugal	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
EP2229800	Romania	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
2474086	Russian Federation	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
EP2229800	Sweden	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
161988	Singapore	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
I445416	Taiwan	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
97575	Ukraine	Granted	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
1-2010-01926	Vietnam	Pending	Shared resource allocation	ATIS.3GPP.25.321V8170-2014
8,565,146	United States	Granted	Method and apparatus for supporting data transmission in a multi-carrier communication system	ATIS.3GPP.25.321V8170-2014
PI0907904-1	Brazil	Pending	Method and apparatus for supporting data transmission in a multi-carrier communication system	ATIS.3GPP.25.321V8170-2014
2714446	Canada	Granted	Method and apparatus for supporting data transmission in a multi-carrier communication system	ATIS.3GPP.25.321V8170-2014
200980106194.0	China P.R.	Pending	Method and apparatus for supporting data transmission in a multi-carrier communication system	ATIS.3GPP.25.321V8170-2014
201610213417.5	China P.R.	Pending	Method and apparatus for supporting data transmission in a multi-carrier communication system	ATIS.3GPP.25.321V8170-2014
11107578.2	Hong Kong	Pending	Method and apparatus for supporting data transmission in a multi-carrier communication system	ATIS.3GPP.25.321V8170-2014
09715451.2	European Patent Convention	Pending	Method and apparatus for supporting data transmission in a multi-carrier communication system	ATIS.3GPP.25.321V8170-2014
W-00201003324	Indonesia	Pending	Method and apparatus for supporting data transmission in a multi-carrier communication system	ATIS.3GPP.25.321V8170-2014
4793/CHENP/2010	India	Pending	Method and apparatus for supporting data transmission in a multi-carrier communication system	ATIS.3GPP.25.321V8170-2014
5524088	Japan	Granted	Method and apparatus for supporting data transmission in a multi-carrier communication system	ATIS.3GPP.25.321V8170-2014
10-1624960	Republic of Korea	Granted	Method and apparatus for supporting data transmission in a multi-carrier communication system	ATIS.3GPP.25.321V8170-2014
10-2016-7013642	Republic of Korea	Pending	Method and apparatus for supporting data transmission in a multi-carrier communication system	ATIS.3GPP.25.321V8170-2014
302189	Mexico	Granted	Method and apparatus for supporting data transmission in a multi-carrier communication system	ATIS.3GPP.25.321V8170-2014
2474089	Russian Federation	Granted	Method and apparatus for supporting data transmission in a multi-carrier communication system	ATIS.3GPP.25.321V8170-2014

I386090	Taiwan	Granted	Method and apparatus for supporting data transmission in a multi-carrier communication system	ATIS.3GPP.25.321V8170-2014
99757	Ukraine	Granted	Method and apparatus for supporting data transmission in a multi-carrier communication system	ATIS.3GPP.25.321V8170-2014
1-2010-02555	Vietnam	Pending	Method and apparatus for supporting data transmission in a multi-carrier communication system	ATIS.3GPP.25.321V8170-2014
12/406,812	United States	Pending	METHOD AND APPARATUS FOR MEDIA ACCESS CONTROL -BASED FAST CELL SWITCHING FOR HIGH-SPEED PACKET ACCESS	ATIS.3GPP.25.331V8250-2016
200980110130.8	China P.R.	Pending	Method and apparatus for media access control-based fast cell switching for high-speed packet access	ATIS.3GPP.25.331V8250-2016
11108226.6	Hong Kong	Pending	Method and apparatus for media access control-based fast cell switching for high-speed packet access	ATIS.3GPP.25.331V8250-2016
9,100,890	United States	Granted	Method and apparatus for media access control -based fast cell switching for high-speed packet access	ATIS.3GPP.25.331V8250-2016
09721873.9	European Patent Convention	Pending	Method and apparatus for media access control-based fast cell switching for high-speed packet access	ATIS.3GPP.25.331V8250-2016
W-00201003619	Indonesia	Pending	Method and apparatus for media access control-based fast cell switching for high-speed packet access	ATIS.3GPP.25.331V8250-2016
6051/CHENP/2010	India	Pending	Method and apparatus for media access control-based fast cell switching for high-speed packet access	ATIS.3GPP.25.331V8250-2016
5231626	Japan	Granted	Method and apparatus for media access control-based fast cell switching for high-speed packet access	ATIS.3GPP.25.331V8250-2016
10-1174217	Republic of Korea	Granted	Method and apparatus for media access control-based fast cell switching for high-speed packet access	ATIS.3GPP.25.331V8250-2016
10-1200483	Republic of Korea	Granted	Method and apparatus for media access control-based fast cell switching for high-speed packet access	ATIS.3GPP.25.331V8250-2016
MX/a/2010/010220	Mexico	Pending	Method and apparatus for media access control-based fast cell switching for high-speed packet access	ATIS.3GPP.25.331V8250-2016
MX/a/2012/014414	Mexico	Pending	Method and apparatus for media access control-based fast cell switching for high-speed packet access	ATIS.3GPP.25.331V8250-2016
MX/a/2012/014415	Mexico	Pending	Method and apparatus for media access control-based fast cell switching for high-speed packet access	ATIS.3GPP.25.331V8250-2016
1-2010-502124	Philippines	Pending	Method and apparatus for media access control-based fast cell switching for high-speed packet access	ATIS.3GPP.25.331V8250-2016
2476013	Russian Federation	Granted	Method and apparatus for media access control-based fast cell switching for high-speed packet access	ATIS.3GPP.25.331V8250-2016
201302059-9	Singapore	Pending	Method and apparatus for media access control-based fast cell switching for high-speed packet access	ATIS.3GPP.25.331V8250-2016
I407807	Taiwan	Granted	Method and apparatus for media access control-based fast cell switching for high-speed packet access	ATIS.3GPP.25.331V8250-2016
96100	Ukraine	Granted	Method and apparatus for media access control-based fast cell switching for high-speed packet access	ATIS.3GPP.25.331V8250-2016
1-2010-02699	Vietnam	Pending	Method and apparatus for media access control-based fast cell switching for high-speed packet access	ATIS.3GPP.25.331V8250-2016

9,167,505	United States	Granted	Access management for wireless communication	ATIS.3GPP.25.304V8120-2012
2012247065	Australia	Granted	Access management for wireless communication	ATIS.3GPP.25.304V8120-2012
PI0818609-0	Brazil	Pending	Access management for wireless communication	ATIS.3GPP.25.304V8120-2012
2701906	Canada	Pending	Access management for wireless communication	ATIS.3GPP.25.304V8120-2012
ZL200880119610.6	China P.R.	Granted	Access management for wireless communication	ATIS.3GPP.25.304V8120-2012
HK1150482	Hong Kong	Granted	Access management for wireless communication	ATIS.3GPP.25.304V8120-2012
08838128.0	European Patent Convention	Pending	Access management for wireless communication	ATIS.3GPP.25.304V8120-2012
ID0034038	Indonesia	Granted	Access management for wireless communication	ATIS.3GPP.25.304V8120-2012
204870	Israel	Pending	Access management for wireless communication	ATIS.3GPP.25.304V8120-2012
2515/DELNP/2010	India	Pending	Access management for wireless communication	ATIS.3GPP.25.304V8120-2012
5248617	Japan	Granted	Access management for wireless communication	ATIS.3GPP.25.304V8120-2012
10-1290186	Republic of Korea	Granted	Access management for wireless communication	ATIS.3GPP.25.304V8120-2012
10-1327456	Republic of Korea	Granted	Access management for wireless communication	ATIS.3GPP.25.304V8120-2012
317775	Mexico	Granted	Access management for wireless communication	ATIS.3GPP.25.304V8120-2012
PI 2010001546	Malaysia	Pending	Access management for wireless communication	ATIS.3GPP.25.304V8120-2012
1-2010-500755	Philippines	Pending	Access management for wireless communication	ATIS.3GPP.25.304V8120-2012
2459374	Russian Federation	Granted	Access management for wireless communication	ATIS.3GPP.25.304V8120-2012
I454110	Taiwan	Granted	Access management for access point base stations	ATIS.3GPP.25.304V8120-2012
101337	Ukraine	Granted	Access management for wireless communication	ATIS.3GPP.25.304V8120-2012
13449	Vietnam	Granted	Access management for wireless communication	ATIS.3GPP.25.304V8120-2012
9,167,505	United States	Granted	Access management for wireless communication	ATIS.3GPP.25.331V8250-2016
2012247065	Australia	Granted	Access management for wireless communication	ATIS.3GPP.25.331V8250-2016
PI0818609-0	Brazil	Pending	Access management for wireless communication	ATIS.3GPP.25.331V8250-2016
2701906	Canada	Pending	Access management for wireless communication	ATIS.3GPP.25.331V8250-2016
ZL200880119610.6	China P.R.	Granted	Access management for wireless communication	ATIS.3GPP.25.331V8250-2016
HK1150482	Hong Kong	Granted	Access management for wireless communication	ATIS.3GPP.25.331V8250-2016
08838128.0	European Patent Convention	Pending	Access management for wireless communication	ATIS.3GPP.25.331V8250-2016
ID0034038	Indonesia	Granted	Access management for wireless communication	ATIS.3GPP.25.331V8250-2016
204870	Israel	Pending	Access management for wireless communication	ATIS.3GPP.25.331V8250-2016
2515/DELNP/2010	India	Pending	Access management for wireless communication	ATIS.3GPP.25.331V8250-2016
5248617	Japan	Granted	Access management for wireless communication	ATIS.3GPP.25.331V8250-2016
10-1290186	Republic of Korea	Granted	Access management for wireless communication	ATIS.3GPP.25.331V8250-2016
10-1327456	Republic of Korea	Granted	Access management for wireless communication	ATIS.3GPP.25.331V8250-2016
317775	Mexico	Granted	Access management for wireless communication	ATIS.3GPP.25.331V8250-2016
PI 2010001546	Malaysia	Pending	Access management for wireless communication	ATIS.3GPP.25.331V8250-2016
1-2010-500755	Philippines	Pending	Access management for wireless communication	ATIS.3GPP.25.331V8250-2016
2459374	Russian Federation	Granted	Access management for wireless communication	ATIS.3GPP.25.331V8250-2016
I454110	Taiwan	Granted	Access management for access point base stations	ATIS.3GPP.25.331V8250-2016
101337	Ukraine	Granted	Access management for wireless communication	ATIS.3GPP.25.331V8250-2016
13449	Vietnam	Granted	Access management for wireless communication	ATIS.3GPP.25.331V8250-2016

ZL201080013625.1	China P.R.	Granted	Enhanced high-speed downlink shared channel serving cell change procedures	ATIS.3GPP.25.133V8200-2016
10728012.5	European Patent Convention	Pending	Enhanced high-speed downlink shared channel serving cell change procedures	ATIS.3GPP.25.133V8200-2016
6620/CHENP/2011	India	Pending	Enhanced high-speed downlink shared channel serving cell change procedures	ATIS.3GPP.25.133V8200-2016
5306538	Japan	Granted	Enhanced high-speed downlink shared channel serving cell change procedures	ATIS.3GPP.25.133V8200-2016
10-1398945	Republic of Korea	Granted	Enhanced high-speed downlink shared channel serving cell change procedures	ATIS.3GPP.25.133V8200-2016
ZL201080013625.1	China P.R.	Granted	Enhanced high-speed downlink shared channel serving cell change procedures	ATIS.3GPP.25.331V8250-2016
10728012.5	European Patent Convention	Pending	Enhanced high-speed downlink shared channel serving cell change procedures	ATIS.3GPP.25.331V8250-2016
6620/CHENP/2011	India	Pending	Enhanced high-speed downlink shared channel serving cell change procedures	ATIS.3GPP.25.331V8250-2016
5306538	Japan	Granted	Enhanced high-speed downlink shared channel serving cell change procedures	ATIS.3GPP.25.331V8250-2016
10-1398945	Republic of Korea	Granted	Enhanced high-speed downlink shared channel serving cell change procedures	ATIS.3GPP.25.331V8250-2016
8,121,632	United States	Granted	Suitable trigger mechanism to control new cell identification in UE when in DRX mode	ATIS.3GPP.25.133V8200-2016
2009212468	Australia	Granted	Suitable trigger mechanism to control new cell identification in UE when in DRX mode	ATIS.3GPP.25.133V8200-2016
PI0907769-3	Brazil	Pending	Suitable trigger mechanism to control new cell identification in UE when in DRX mode	ATIS.3GPP.25.133V8200-2016
2711797	Canada	Granted	Suitable trigger mechanism to control new cell identification in UE when in DRX mode	ATIS.3GPP.25.133V8200-2016
ZL200980104162.7	China P.R.	Granted	Suitable trigger mechanism to control new cell identification in UE when in DRX mode	ATIS.3GPP.25.133V8200-2016
11106811.1	Hong Kong	Pending	Suitable trigger mechanism to control new cell identification in UE when in DRX mode	ATIS.3GPP.25.133V8200-2016
09709393.4	European Patent Convention	Pending	Suitable trigger mechanism to control new cell identification in UE when in DRX mode	ATIS.3GPP.25.133V8200-2016
IDP000035037	Indonesia	Granted	Suitable trigger mechanism to control new cell identification in UE when in DRX mode	ATIS.3GPP.25.133V8200-2016
4210/CHENP/2010	India	Pending	Suitable trigger mechanism to control new cell identification in UE when in DRX mode	ATIS.3GPP.25.133V8200-2016
5048848	Japan	Granted	Suitable trigger mechanism to control new cell identification in UE when in DRX mode	ATIS.3GPP.25.133V8200-2016
10-1155676	Republic of Korea	Granted	Suitable trigger mechanism to control new cell identification in UE when in DRX mode	ATIS.3GPP.25.133V8200-2016
10-1227467	Republic of Korea	Granted	Suitable trigger mechanism to control new cell identification in UE when in DRX mode	ATIS.3GPP.25.133V8200-2016
302349	Mexico	Granted	Suitable trigger mechanism to control new cell identification in UE when in DRX mode	ATIS.3GPP.25.133V8200-2016
PI 2010003189	Malaysia	Pending	Suitable trigger mechanism to control new cell identification in UE when in DRX mode	ATIS.3GPP.25.133V8200-2016
1-2010-501639	Philippines	Pending	Suitable trigger mechanism to control new cell identification in UE when in DRX mode	ATIS.3GPP.25.133V8200-2016
2461993	Russian Federation	Granted	Suitable trigger mechanism to control new cell identification in UE when in DRX mode	ATIS.3GPP.25.133V8200-2016

I376971	Taiwan	Granted	Suitable trigger mechanism to control new cell identification in UE when in DRX mode	ATIS.3GPP.25.133V8200-2016
98997	Ukraine	Granted	Suitable trigger mechanism to control new cell identification in UE when in DRX mode	ATIS.3GPP.25.133V8200-2016
1-2010-02204	Vietnam	Pending	Suitable trigger mechanism to control new cell identification in UE when in DRX mode	ATIS.3GPP.25.133V8200-2016
12/390,155	United States	Pending	Cell selection using enhanced general neighbor list methods	ATIS.3GPP.44.018V8170-2014
PI0907994-7	Brazil	Pending	Cell selection using enhanced general neighbor list methods	ATIS.3GPP.44.018V8170-2014
ZL200980106552.8	China P.R.	Granted	Cell selection using enhanced general neighbor list methods	ATIS.3GPP.44.018V8170-2014
09715465.2	European Patent Convention	Pending	Cell selection using enhanced general neighbor list methods	ATIS.3GPP.44.018V8170-2014
5268/CHENP/2010	India	Pending	Cell selection using enhanced general neighbor list methods	ATIS.3GPP.44.018V8170-2014
5231581	Japan	Granted	Cell selection using enhanced general neighbor list methods	ATIS.3GPP.44.018V8170-2014
10-1198421	Republic of Korea	Granted	Cell selection using enhanced general neighbor list methods	ATIS.3GPP.44.018V8170-2014
MX/a/2010/009354	Mexico	Pending	Cell selection using enhanced general neighbor list methods	ATIS.3GPP.44.018V8170-2014
201011511	Ukraine	Pending	Cell selection using enhanced general neighbor list methods	ATIS.3GPP.44.018V8170-2014
1-2010-02575	Vietnam	Pending	Cell selection using enhanced general neighbor list methods	ATIS.3GPP.44.018V8170-2014
12/390,155	United States	Pending	Cell selection using enhanced general neighbor list methods	ATIS.3GPP.44.060V8170-2014
PI0907994-7	Brazil	Pending	Cell selection using enhanced general neighbor list methods	ATIS.3GPP.44.060V8170-2014
ZL200980106552.8	China P.R.	Granted	Cell selection using enhanced general neighbor list methods	ATIS.3GPP.44.060V8170-2014
09715465.2	European Patent Convention	Pending	Cell selection using enhanced general neighbor list methods	ATIS.3GPP.44.060V8170-2014
5268/CHENP/2010	India	Pending	Cell selection using enhanced general neighbor list methods	ATIS.3GPP.44.060V8170-2014
5231581	Japan	Granted	Cell selection using enhanced general neighbor list methods	ATIS.3GPP.44.060V8170-2014
10-1198421	Republic of Korea	Granted	Cell selection using enhanced general neighbor list methods	ATIS.3GPP.44.060V8170-2014
MX/a/2010/009354	Mexico	Pending	Cell selection using enhanced general neighbor list methods	ATIS.3GPP.44.060V8170-2014
201011511	Ukraine	Pending	Cell selection using enhanced general neighbor list methods	ATIS.3GPP.44.060V8170-2014
1-2010-02575	Vietnam	Pending	Cell selection using enhanced general neighbor list methods	ATIS.3GPP.44.060V8170-2014
8,743,909	United States	Granted	Frame termination	ATIS.3GPP.25.214V8130-2014
ZL200980103051.4	China P.R.	Granted	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
EP2245780	Germany	Granted	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
EP2245780	European Patent Convention	Granted	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
13179791.2	European Patent Convention	Pending	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
EP2245780	Great Britain	Granted	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
4604/CHENP/2010	India	Pending	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
5591719	Japan	Granted	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
5654101	Japan	Granted	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
5985566	Japan	Granted	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
2016-000228	Japan	Pending	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
2016-104444	Japan	Pending	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
10-1297733	Republic of Korea	Granted	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
8,711,785	United States	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.25.331V8250-2016
2009249506	Australia	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.25.331V8250-2016

PI0910273-6	Brazil	Pending	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.25.331V8250-2016
2717358	Canada	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.25.331V8250-2016
ZL200980109902.6	China P.R.	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.25.331V8250-2016
HK1150194	Hong Kong	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.25.331V8250-2016
09751046.5	European Patent Convention	Pending	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.25.331V8250-2016
IDP000037004	Indonesia	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.25.331V8250-2016
207900	Israel	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.25.331V8250-2016
5425/CHENP/2010	India	Pending	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.25.331V8250-2016
5602908	Japan	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.25.331V8250-2016
10-1215469	Republic of Korea	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.25.331V8250-2016
309872	Mexico	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.25.331V8250-2016
MY-157389-A	Malaysia	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.25.331V8250-2016
1-2010-502052	Philippines	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.25.331V8250-2016
2464740	Russian Federation	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.25.331V8250-2016
201301893-2	Singapore	Pending	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.25.331V8250-2016
I376168	Taiwan	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.25.331V8250-2016
98050	Ukraine	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.25.331V8250-2016
13703	Vietnam	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.25.331V8250-2016
8,971,888	United States	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
2009225466	Australia	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
PI0909136-0	Brazil	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
9,414,228	United States	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
9,414,229	United States	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
2718732	Canada	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
ZL200980109554.2	China P.R.	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
201310300354.3	China P.R.	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
14105192.9	Hong Kong	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
201410406282.5	China P.R.	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
15105426.6	Hong Kong	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
11108225.7	Hong Kong	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
09723465.2	European Patent Convention	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
6050/CHENP/2010	India	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
5123426	Japan	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
5579816	Japan	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
5960108	Japan	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
2015-147158	Japan	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
5864662	Japan	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
10-1258966	Republic of Korea	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
10-1255037	Republic of Korea	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
10-1280995	Republic of Korea	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016

10-1487880	Republic of Korea	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
10-1543647	Republic of Korea	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
309873	Mexico	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
1-2010-502123	Philippines	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
2473186	Russian Federation	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
164887	Singapore	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
201304865-7	Singapore	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
I439149	Taiwan	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
101833	Ukraine	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
201213986	Ukraine	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
13310	Vietnam	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.25.331V8250-2016
8,706,123	United States	Granted	Common data channel resource usage report	ATIS.3GPP.25.302V870-2012
2009228523	Australia	Granted	Common data channel resource usage report	ATIS.3GPP.25.302V870-2012
PI0909520-9	Brazil	Pending	Common data channel resource usage report	ATIS.3GPP.25.302V870-2012
2719077	Canada	Granted	Common data channel resource usage report	ATIS.3GPP.25.302V870-2012
200980110329.0	China P.R.	Pending	Common data channel resource usage report	ATIS.3GPP.25.302V870-2012
11104911.5	Hong Kong	Pending	Common data channel resource usage report	ATIS.3GPP.25.302V870-2012
09725556.6	European Patent Convention	Pending	Common data channel resource usage report	ATIS.3GPP.25.302V870-2012
IDP000034744	Indonesia	Granted	Common data channel resource usage report	ATIS.3GPP.25.302V870-2012
5786/CHENP/2010	India	Pending	Common data channel resource usage report	ATIS.3GPP.25.302V870-2012
10-1180545	Republic of Korea	Granted	Common data channel resource usage report	ATIS.3GPP.25.302V870-2012
305121	Mexico	Granted	Common data channel resource usage report	ATIS.3GPP.25.302V870-2012
2462834	Russian Federation	Granted	Common data channel resource usage report	ATIS.3GPP.25.302V870-2012
201301867-6	Singapore	Pending	Common data channel resource usage report	ATIS.3GPP.25.302V870-2012
I487390	Taiwan	Granted	Method, apparatus, and computer-readable medium for common data channel resource usage report	ATIS.3GPP.25.302V870-2012
99647	Ukraine	Granted	Common data channel resource usage report	ATIS.3GPP.25.302V870-2012
1-2010-02834	Vietnam	Pending	Common data channel resource usage report	ATIS.3GPP.25.302V870-2012
8,228,855	United States	Granted	Uplink power headroom definition for E-DCH in CELL_FACH	ATIS.3GPP.25.133V8200-2016
PI0909521-7	Brazil	Pending	Uplink power headroom measurement delivery and reception for E-DCH in CELL_FACH	ATIS.3GPP.25.133V8200-2016
2717174	Canada	Granted	Uplink power headroom measurement delivery and reception for E-DCH in CELL_FACH	ATIS.3GPP.25.133V8200-2016
ZL200980110379.9	China P.R.	Granted	Uplink power headroom measurement delivery and reception for E-DCH in CELL_FACH	ATIS.3GPP.25.133V8200-2016
11103821.6	Hong Kong	Pending	Uplink power headroom measurement delivery and reception for E-DCH in CELL_FACH	ATIS.3GPP.25.133V8200-2016
09724864.5	European Patent Convention	Pending	Uplink power headroom measurement delivery and reception for E-DCH in CELL_FACH	ATIS.3GPP.25.133V8200-2016
IDP0032736	Indonesia	Granted	Uplink power headroom definition for E-DCH in CELL_FACH	ATIS.3GPP.25.133V8200-2016

5568/CHENP/2010	India	Pending	Uplink power headroom measurement delivery and reception for E-DCH in CELL_FACH	ATIS.3GPP.25.133V8200-2016
5373050	Japan	Granted	Uplink power headroom measurement delivery and reception for E-DCH in CELL_FACH	ATIS.3GPP.25.133V8200-2016
10-1172980	Republic of Korea	Granted	Uplink power headroom measurement delivery and reception for E-DCH in CELL_FACH	ATIS.3GPP.25.133V8200-2016
301016	Mexico	Granted	Uplink power headroom measurement delivery and reception for E-DCH in CELL_FACH	ATIS.3GPP.25.133V8200-2016
1-2010-502075	Philippines	Pending	Uplink power headroom measurement delivery and reception for E-DCH in CELL_FACH	ATIS.3GPP.25.133V8200-2016
14/340,401	United States	Pending	Uplink power headroom definition for E-DCH in CELL_FACH	ATIS.3GPP.25.133V8200-2016
2459389	Russian Federation	Granted	Uplink power headroom measurement delivery and reception for E-DCH in CELL_FACH	ATIS.3GPP.25.133V8200-2016
164645	Singapore	Granted	Uplink power headroom measurement delivery and reception for E-DCH in CELL_FACH	ATIS.3GPP.25.133V8200-2016
I387373	Taiwan	Granted	Uplink power headroom definition for E-DCH in cell_FACH	ATIS.3GPP.25.133V8200-2016
99648	Ukraine	Granted	Uplink power headroom measurement delivery and reception for E-DCH in CELL_FACH	ATIS.3GPP.25.133V8200-2016
1-2010-02835	Vietnam	Pending	Uplink power headroom measurement delivery and reception for E-DCH in CELL_FACH	ATIS.3GPP.25.133V8200-2016
8,165,026	United States	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.25.331V8250-2016
PI0909522-5	Brazil	Pending	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.25.331V8250-2016
ZL200980109545.3	China P.R.	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.25.331V8250-2016
HK1154321	Hong Kong	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.25.331V8250-2016
EP2272198	Germany	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.25.331V8250-2016
EP2272198	European Patent Convention	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.25.331V8250-2016
EP2272198	Great Britain	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.25.331V8250-2016
IDP0039248	Indonesia	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.25.331V8250-2016
5421/CHENP/2010	India	Pending	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.25.331V8250-2016
5373052	Japan	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.25.331V8250-2016
10-1182983	Republic of Korea	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.25.331V8250-2016
313926	Mexico	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.25.331V8250-2016
1-2010-502007	Philippines	Pending	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.25.331V8250-2016
2442286	Russian Federation	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.25.331V8250-2016
164581	Singapore	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.25.331V8250-2016
I392391	Taiwan	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.25.331V8250-2016
96391	Ukraine	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.25.331V8250-2016
1-2010-02836	Vietnam	Pending	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.25.331V8250-2016
8,666,358	United States	Granted	Method and apparatus for delivering and receiving enhanced emergency broadcast alert messages	ATIS.3GPP.25.331V8250-2016
09756910.7	European Patent Convention	Pending	Method and apparatus for delivering and receiving enhanced emergency broadcast alert messages	ATIS.3GPP.25.331V8250-2016

3035/CHENP/2011	India	Pending	Method and apparatus for delivering and receiving enhanced emergency broadcast alert messages	ATIS.3GPP.25.331V8250-2016
5502886	Japan	Granted	Method and apparatus for delivering and receiving enhanced emergency broadcast alert messages	ATIS.3GPP.25.331V8250-2016
10-1317455	Republic of Korea	Granted	Method and apparatus for delivering and receiving enhanced emergency broadcast alert messages	ATIS.3GPP.25.331V8250-2016
8,559,359	United States	Granted	Information exchange mechanisms to achieve network QoS in wireless cellular systems	ATIS.3GPP.36.300V8120-2010
PI0911784-9	Brazil	Pending	Inter access point interference information exchange mechanisms to achieve network QoS target in wireless cellular systems	ATIS.3GPP.36.300V8120-2010
ZL200980115214.0	China P.R.	Granted	Inter access point interference information exchange mechanisms to achieve network QoS target in wireless cellular systems	ATIS.3GPP.36.300V8120-2010
09739723.6	European Patent Convention	Pending	Inter access point interference information exchange mechanisms to achieve network QoS target in wireless cellular systems	ATIS.3GPP.36.300V8120-2010
6729/CHENP/2010	India	Pending	Inter access point interference information exchange mechanisms to achieve network QoS target in wireless cellular systems	ATIS.3GPP.36.300V8120-2010
5738907	Japan	Granted	Inter access point interference information exchange mechanisms to achieve network QoS target in wireless cellular systems	ATIS.3GPP.36.300V8120-2010
10-1226980	Republic of Korea	Granted	Inter access point interference information exchange mechanisms to achieve network QoS target in wireless cellular systems	ATIS.3GPP.36.300V8120-2010
2476024	Russian Federation	Granted	Inter access point interference information exchange mechanisms to achieve network QoS target in wireless cellular systems	ATIS.3GPP.36.300V8120-2010
8,639,271	United States	Granted	Method and apparatus for supporting location-based services by a removable module	ATIS.3GPP.36.111V1200-2015
200980122209.2	China P.R.	Pending	Method and apparatus for supporting location-based services by a removable module	ATIS.3GPP.36.111V1200-2015
2679/MUMNP/2010	India	Pending	Method and apparatus for supporting location-based services by a removable module	ATIS.3GPP.36.111V1200-2015
5490792	Japan	Granted	Method and apparatus for supporting location-based services by a removable module	ATIS.3GPP.36.111V1200-2015
10-1291003	Republic of Korea	Granted	Method and apparatus for supporting location-based services by a removable module	ATIS.3GPP.36.111V1200-2015
8,605,801	United States	Granted	Pilot signal set management in a multi-carrier communication system	ATIS.3GPP.25.331V8250-2016
PI0913034-9	Brazil	Pending	Pilot signal set management in a multi-carrier communication system	ATIS.3GPP.25.331V8250-2016
9,131,420	United States	Granted	Pilot signal set management in a multi-carrier communication system	ATIS.3GPP.25.331V8250-2016
ZL200980117703.X	China P.R.	Granted	Pilot signal set management in a multi-carrier communication system	ATIS.3GPP.25.331V8250-2016
11107496.1	Hong Kong	Pending	Pilot signal set management in a multi-carrier communication system	ATIS.3GPP.25.331V8250-2016
09751524.1	European Patent Convention	Pending	Pilot signal set management in a multi-carrier communication system	ATIS.3GPP.25.331V8250-2016
2261/MUMNP/2010	India	Pending	Pilot signal set management in a multi-carrier communication system	ATIS.3GPP.25.331V8250-2016
5356508	Japan	Granted	Pilot signal set management in a multi-carrier communication system	ATIS.3GPP.25.331V8250-2016
10-1223378	Republic of Korea	Granted	Pilot signal set management in a multi-carrier communication system	ATIS.3GPP.25.331V8250-2016
313906	Mexico	Granted	Pilot signal set management in a multi-carrier communication system	ATIS.3GPP.25.331V8250-2016
1-2010-502421	Philippines	Pending	Pilot signal set management in a multi-carrier communication system	ATIS.3GPP.25.331V8250-2016

2486701	Russian Federation	Granted	Pilot signal set management in a multi-carrier communication system	ATIS.3GPP.25.331V8250-2016
201303811-2	Singapore	Pending	Pilot signal set management in a multi-carrier communication system	ATIS.3GPP.25.331V8250-2016
I413391	Taiwan	Granted	Pilot signal set management in a multi-carrier communication system	ATIS.3GPP.25.331V8250-2016
96889	Ukraine	Granted	Pilot signal set management in a multi-carrier communication system	ATIS.3GPP.25.331V8250-2016
1-2010-03424	Vietnam	Pending	Pilot signal set management in a multi-carrier communication system	ATIS.3GPP.25.331V8250-2016
8,626,162	United States	Granted	Registration and access control in femto cell deployments	ATIS.3GPP.25.304V8120-2012
2013231095	Australia	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
PI0915648-8	Brazil	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
14/096,643	United States	Pending	Registration and access control in femto cell deployments	ATIS.3GPP.25.304V8120-2012
2725459	Canada	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
ZL200980120743.X	China P.R.	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
201310571793.8	China P.R.	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
14107911.5	Hong Kong	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
HK1157998	Hong Kong	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
EP2314105	Germany	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
EP2378811	Germany	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
EP2314105	European Patent Convention	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
EP2378811	European Patent Convention	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
EP2314105	Spain	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
EP2378811	Spain	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
EP2314105	France	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
EP2378811	France	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
EP2314105	Great Britain	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
EP2378811	Great Britain	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
W-00201100051	Indonesia	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
7658/CheNP/2010	India	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
EP2314105	Italy	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
EP2378811	Italy	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
5579708	Japan	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
10-1216364	Republic of Korea	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
308291	Mexico	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
316582	Mexico	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
EP2378811	Netherlands	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
1-2010-502698	Philippines	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
2486704	Russian Federation	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
2547242	Russian Federation	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
166604	Singapore	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
I468038	Taiwan	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
100425	Ukraine	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012
1-2010-03539	Vietnam	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.304V8120-2012

8,626,162	United States	Granted	Registration and access control in femto cell deployments	ATIS.3GPP.25.331V8250-2016
2013231095	Australia	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
PI0915648-8	Brazil	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
14/096,643	United States	Pending	Registration and access control in femto cell deployments	ATIS.3GPP.25.331V8250-2016
2725459	Canada	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
ZL200980120743.X	China P.R.	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
201310571793.8	China P.R.	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
14107911.5	Hong Kong	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
HK1157998	Hong Kong	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
EP2314105	Germany	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
EP2378811	Germany	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
EP2314105	European Patent Convention	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
EP2378811	European Patent Convention	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
EP2314105	Spain	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
EP2378811	Spain	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
EP2314105	France	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
EP2378811	France	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
EP2314105	Great Britain	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
EP2378811	Great Britain	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
W-00201100051	Indonesia	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
7658/CheNP/2010	India	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
EP2314105	Italy	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
EP2378811	Italy	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
5579708	Japan	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
10-1216364	Republic of Korea	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
308291	Mexico	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
316582	Mexico	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
EP2378811	Netherlands	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
1-2010-502698	Philippines	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
2486704	Russian Federation	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
2547242	Russian Federation	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
166604	Singapore	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
I468038	Taiwan	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
100425	Ukraine	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
1-2010-03539	Vietnam	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.25.331V8250-2016
9,014,152	United States	Granted	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
PI0914970-8	Brazil	Pending	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
ZL200980121260.1	China P.R.	Granted	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
11112132.1	Hong Kong	Pending	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
EP2289194	Germany	Granted	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014

EP2289194	European Patent Convention	Granted	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
EP2289194	Great Britain	Granted	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
IDP000034364	Indonesia	Granted	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
7475/CHENP/2010	India	Pending	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
5868928	Japan	Granted	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
10-1266070	Republic of Korea	Granted	Method and apparatus for early transmission of sequential frame transmissions over a communication channel	ATIS.3GPP.25.214V8130-2014
308176	Mexico	Granted	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
1-2010-502577	Philippines	Pending	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
2459363	Russian Federation	Granted	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
166482	Singapore	Granted	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
99660	Ukraine	Granted	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
1-2011-00066	Vietnam	Pending	Increasing capacity in wireless communications	ATIS.3GPP.25.214V8130-2014
9,094,933	United States	Granted	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.25.413V880-2012
2009205545	Australia	Granted	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.25.413V880-2012
PI0907118-0	Brazil	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.25.413V880-2012
ZL200980102167.6	China P.R.	Granted	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.25.413V880-2012
201410798766.9	China P.R.	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.25.413V880-2012
11103811.8	Hong Kong	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.25.413V880-2012
09702782.5	European Patent Convention	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.25.413V880-2012
3716/CHENP/2010	India	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.25.413V880-2012
2010-543195	Japan	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.25.413V880-2012
5823556	Japan	Granted	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.25.413V880-2012
10-1238789	Republic of Korea	Granted	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.25.413V880-2012
10-1442036	Republic of Korea	Granted	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.25.413V880-2012
312196	Mexico	Granted	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.25.413V880-2012
1-2010-501476	Philippines	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.25.413V880-2012
2474084	Russian Federation	Granted	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.25.413V880-2012
201300162-3	Singapore	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.25.413V880-2012
97726	Ukraine	Granted	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.25.413V880-2012
1-2010-02111	Vietnam	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.25.413V880-2012
8,559,298	United States	Granted	Method and apparatus for automatic handover optimization	ATIS.3GPP.48.018V8110-2014
ZL200980124974.8	China P.R.	Granted	Method and apparatus for automatic handover optimization	ATIS.3GPP.48.018V8110-2014
09774376.9	European Patent Convention	Pending	Method and apparatus for automatic handover optimization	ATIS.3GPP.48.018V8110-2014
7903/CHENP/2010	India	Pending	Method and apparatus for automatic handover optimization	ATIS.3GPP.48.018V8110-2014
5096616	Japan	Granted	Method and apparatus for automatic handover optimization	ATIS.3GPP.48.018V8110-2014
10-1238418	Republic of Korea	Granted	Method and apparatus for automatic handover optimization	ATIS.3GPP.48.018V8110-2014
12/415,809	United States	Pending	Method and apparatus for FEMTO cell deployment using neighbor list messages and its use in FEMTO cell system selection	ATIS.3GPP.25.331V8250-2016
PI0915494-9	Brazil	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.25.331V8250-2016
2729936	Canada	Granted	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.25.331V8250-2016

2863547	Canada	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.25.331V8250-2016
ZL200980126733.7	China P.R.	Granted	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.25.331V8250-2016
09789588.2	European Patent Convention	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.25.331V8250-2016
8468/CHENP/2010	India	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.25.331V8250-2016
5684120	Japan	Granted	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.25.331V8250-2016
2015-005226	Japan	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.25.331V8250-2016
10-1314703	Republic of Korea	Granted	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.25.331V8250-2016
10-1514727	Republic of Korea	Granted	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.25.331V8250-2016
MX/a/2011/000376	Mexico	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.25.331V8250-2016
PI 2010005984	Malaysia	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.25.331V8250-2016
1-2010-502844	Philippines	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.25.331V8250-2016
2479160	Russian Federation	Granted	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.25.331V8250-2016
I403194	Taiwan	Granted	Method and apparatus for FEMTO cell deployment using neighbor list messages and its use in FEMTO cell system selection	ATIS.3GPP.25.331V8250-2016
1-2011-00386	Vietnam	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.25.331V8250-2016
12/415,809	United States	Pending	Method and apparatus for FEMTO cell deployment using neighbor list messages and its use in FEMTO cell system selection	ATIS.3GPP.44.018V8170-2014
PI0915494-9	Brazil	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.018V8170-2014
2729936	Canada	Granted	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.018V8170-2014
2863547	Canada	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.018V8170-2014
ZL200980126733.7	China P.R.	Granted	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.018V8170-2014
09789588.2	European Patent Convention	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.018V8170-2014
8468/CHENP/2010	India	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.018V8170-2014
5684120	Japan	Granted	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.018V8170-2014
2015-005226	Japan	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.018V8170-2014
10-1314703	Republic of Korea	Granted	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.018V8170-2014
10-1514727	Republic of Korea	Granted	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.018V8170-2014
MX/a/2011/000376	Mexico	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.018V8170-2014
PI 2010005984	Malaysia	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.018V8170-2014
1-2010-502844	Philippines	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.018V8170-2014
2479160	Russian Federation	Granted	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.018V8170-2014
I403194	Taiwan	Granted	Method and apparatus for FEMTO cell deployment using neighbor list messages and its use in FEMTO cell system selection	ATIS.3GPP.44.018V8170-2014
1-2011-00386	Vietnam	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.018V8170-2014
12/415,809	United States	Pending	Method and apparatus for FEMTO cell deployment using neighbor list messages and its use in FEMTO cell system selection	ATIS.3GPP.44.060V8170-2014
PI0915494-9	Brazil	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.060V8170-2014
2729936	Canada	Granted	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.060V8170-2014
2863547	Canada	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.060V8170-2014
ZL200980126733.7	China P.R.	Granted	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.060V8170-2014
09789588.2	European Patent Convention	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.060V8170-2014

8468/CHENP/2010	India	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.060V8170-2014
5684120	Japan	Granted	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.060V8170-2014
2015-005226	Japan	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.060V8170-2014
10-1314703	Republic of Korea	Granted	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.060V8170-2014
10-1514727	Republic of Korea	Granted	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.060V8170-2014
MX/a/2011/000376	Mexico	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.060V8170-2014
PI 2010005984	Malaysia	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.060V8170-2014
1-2010-502844	Philippines	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.060V8170-2014
2479160	Russian Federation	Granted	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.060V8170-2014
I403194	Taiwan	Granted	Method and apparatus for FEMTO cell deployment using neighbor list messages and its use in FEMTO cell system selection	ATIS.3GPP.44.060V8170-2014
1-2011-00386	Vietnam	Pending	Neighbor list messages including FEMTO cell information.	ATIS.3GPP.44.060V8170-2014
12/993,825	United States	Pending	Method and apparatus for transmitting and receiving secure and non-secure data	ATIS.3GPP.44.018V8170-2014
2758332	Canada	Pending	Method and apparatus for transmitting and receiving secure and non-secure data	ATIS.3GPP.44.018V8170-2014
EP2377288	Germany	Granted	Method and apparatus for transmitting and receiving secure and non-secure data	ATIS.3GPP.44.018V8170-2014
EP2377288	European Patent Convention	Granted	Method and apparatus for transmitting and receiving secure and non-secure data	ATIS.3GPP.44.018V8170-2014
EP2377288	Spain	Granted	Method and apparatus for transmitting and receiving secure and non-secure data	ATIS.3GPP.44.018V8170-2014
EP2377288	France	Granted	Method and apparatus for transmitting and receiving secure and non-secure data	ATIS.3GPP.44.018V8170-2014
EP2377288	Great Britain	Granted	Method and apparatus for transmitting and receiving secure and non-secure data	ATIS.3GPP.44.018V8170-2014
EP2377288	Italy	Granted	Method and apparatus for transmitting and receiving secure and non-secure data	ATIS.3GPP.44.018V8170-2014
EP2377288	Netherlands	Granted	Method and apparatus for transmitting and receiving secure and non-secure data	ATIS.3GPP.44.018V8170-2014
8,229,440	United States	Granted	Systems, methods and apparatus to facilitate identification and acquisition of access points	ATIS.3GPP.25.304V8120-2012
8,798,634	United States	Granted	Systems, methods and apparatus to facilitate identification and acquisition of access points	ATIS.3GPP.25.304V8120-2012
14/253,669	United States	Pending	Systems, methods and apparatus to facilitate identification and acquisition of access points	ATIS.3GPP.25.304V8120-2012
I424768	Taiwan	Granted	Systems, methods and apparatus to facilitate identification and acquisition of access points	ATIS.3GPP.25.304V8120-2012
8,989,138	United States	Granted	Wireless communication systems with femto nodes	ATIS.3GPP.25.331V8250-2016
PI0916451-0	Brazil	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.331V8250-2016
ZL200980127330.4	China P.R.	Granted	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.331V8250-2016

201410050881.8	China P.R.	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.331V8250-2016
11113202.4	Hong Kong	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.331V8250-2016
09790413.0	European Patent Convention	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.331V8250-2016
W-00201100570	Indonesia	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.331V8250-2016
319/CHENP/2011	India	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.331V8250-2016
5108150	Japan	Granted	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.331V8250-2016
10-1259904	Republic of Korea	Granted	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.331V8250-2016
MX/a/2011/000553	Mexico	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.331V8250-2016
2483481	Russian Federation	Granted	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.331V8250-2016
101674	Ukraine	Granted	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.331V8250-2016
1-2011-00402	Vietnam	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.331V8250-2016
8,989,138	United States	Granted	Wireless communication systems with femto nodes	ATIS.3GPP.25.367V830-2010
PI0916451-0	Brazil	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.367V830-2010
ZL200980127330.4	China P.R.	Granted	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.367V830-2010
201410050881.8	China P.R.	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.367V830-2010
11113202.4	Hong Kong	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.367V830-2010
09790413.0	European Patent Convention	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.367V830-2010
W-00201100570	Indonesia	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.367V830-2010
319/CHENP/2011	India	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.367V830-2010
5108150	Japan	Granted	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.367V830-2010
10-1259904	Republic of Korea	Granted	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.367V830-2010
MX/a/2011/000553	Mexico	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.367V830-2010

2483481	Russian Federation	Granted	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.367V830-2010
101674	Ukraine	Granted	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.367V830-2010
1-2011-00402	Vietnam	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.25.367V830-2010
8,948,031	United States	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2329629	Austria	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2430869	Austria	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2329629	Belgium	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2430869	Belgium	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
PI1014263-0	Brazil	Pending	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
8,817,651	United States	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
2759207	Canada	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2329629	Switzerland	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2430869	Switzerland	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
ZL200880131621.6	China P.R.	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
ZL201080020467.2	China P.R.	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
12110165.4	Hong Kong	Pending	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2329629	Germany	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2430869	Germany	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2611248	Germany	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2608473	Germany	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signalling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2329629	Denmark	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2430869	Denmark	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012

EP2329629	European Patent Convention	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2430869	European Patent Convention	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2611248	European Patent Convention	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
13020079.3	European Patent Convention	Pending	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2608473	European Patent Convention	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signalling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2329629	Spain	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2430869	Spain	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2611248	Spain	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2329629	Finland	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2430869	Finland	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2329629	France	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2430869	France	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2611248	France	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2608473	France	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signalling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2329629	Great Britain	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2430869	Great Britain	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2611248	Great Britain	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2608473	Great Britain	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signalling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2329629	Greece	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2430869	Greece	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2329629	Hungary	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2430869	Hungary	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012

W-00201104551	Indonesia	Pending	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2329629	Ireland	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2430869	Ireland	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
1312/CHENP/2011	India	Pending	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
7836/CHENP/2011	India	Pending	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2329629	Italy	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2430869	Italy	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2611248	Italy	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
5666449	Japan	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signalling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
2014-081379	Japan	Pending	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
10-1267406	Republic of Korea	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
10-1358823	Republic of Korea	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2329629	Liechtenstein	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2329629	Netherlands	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2430869	Netherlands	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2611248	Netherlands	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2329629	Norway	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2430869	Norway	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
1-2011-502293	Philippines	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2329629	Poland	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2430869	Poland	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2329629	Portugal	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012

EP2430869	Portugal	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2329629	Romania	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2430869	Romania	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
2520579	Russian Federation	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
EP2329629	Sweden	Granted	Multiple-frame offset between neighbor cells to enhance the GERAN signaling performance when power control for signaling is in use	ATIS.3GPP.45.002V810-2012
EP2430869	Sweden	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
1101003037	Thailand	Pending	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
I473456	Taiwan	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
1-2011-03436	Vietnam	Pending	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
2011/08356	South Africa	Granted	Time shifting of co-channel data transmissions to reduce co-channel interference	ATIS.3GPP.45.002V810-2012
8,786,491	United States	Granted	Methods and apparatuses for requesting /providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.25.331V8250-2016
PI0916707-2	Brazil	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.25.331V8250-2016
2730155	Canada	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.25.331V8250-2016
ZL200980126131.1	China P.R.	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.25.331V8250-2016
14/308,251	United States	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.25.331V8250-2016
EP2326966	Germany	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.25.331V8250-2016
EP2326966	European Patent Convention	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.25.331V8250-2016
EP2326966	Great Britain	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.25.331V8250-2016
2784/MUMNP/2010	India	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.25.331V8250-2016
2014-231810	Japan	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.25.331V8250-2016
10-2012-7025004	Republic of Korea	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.25.331V8250-2016
10-1645143	Republic of Korea	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.25.331V8250-2016

2475775	Russian Federation	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.25.331V8250-2016
195547	Singapore	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.25.331V8250-2016
I411807	Taiwan	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.25.331V8250-2016
8,786,491	United States	Granted	Methods and apparatuses for requesting /providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.44.031V870-2014
PI0916707-2	Brazil	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.44.031V870-2014
2730155	Canada	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.44.031V870-2014
ZL200980126131.1	China P.R.	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.44.031V870-2014
14/308,251	United States	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.44.031V870-2014
EP2326966	Germany	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.44.031V870-2014
EP2326966	European Patent Convention	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.44.031V870-2014
EP2326966	Great Britain	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.44.031V870-2014
2784/MUMNP/2010	India	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.44.031V870-2014
2014-231810	Japan	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.44.031V870-2014
10-2012-7025004	Republic of Korea	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.44.031V870-2014
10-1645143	Republic of Korea	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.44.031V870-2014
2475775	Russian Federation	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.44.031V870-2014
195547	Singapore	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.44.031V870-2014
I411807	Taiwan	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.44.031V870-2014
8,786,491	United States	Granted	Methods and apparatuses for requesting /providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.49.031V810-2010
PI0916707-2	Brazil	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.49.031V810-2010
2730155	Canada	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.49.031V810-2010

ZL200980126131.1	China P.R.	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.49.031V810-2010
14/308,251	United States	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.49.031V810-2010
EP2326966	Germany	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.49.031V810-2010
EP2326966	European Patent Convention	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.49.031V810-2010
EP2326966	Great Britain	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.49.031V810-2010
2784/MUMNP/2010	India	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.49.031V810-2010
2014-231810	Japan	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.49.031V810-2010
10-2012-7025004	Republic of Korea	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.49.031V810-2010
10-1645143	Republic of Korea	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.49.031V810-2010
2475775	Russian Federation	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.49.031V810-2010
195547	Singapore	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.49.031V810-2010
I411807	Taiwan	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.49.031V810-2010
8,705,411	United States	Granted	MUROS modulation using linear baseband combinations with linear gaussian pulse shaping for two users on one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
PI0823040-4	Brazil	Pending	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users on one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
8,687,525	United States	Granted	Co-channel communication methods, systems, & devices	ATIS.3GPP.45.004V800-2010
2841668	Canada	Granted	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users on one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
2860305	Canada	Granted	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users on one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
2860299	Canada	Granted	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users on one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
ZL200880130847.4	China P.R.	Granted	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users on one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010

EP2342879	Germany	Granted	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users on one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
EP2613489	Germany	Granted	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users of one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
EP2342879	European Patent Convention	Granted	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users on one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
EP2613489	European Patent Convention	Granted	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users of one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
EP2342879	Spain	Granted	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users on one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
EP2613489	Spain	Granted	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users of one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
EP2613489	Finland	Granted	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users of one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
EP2342879	France	Granted	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users on one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
EP2613489	France	Granted	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users of one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
EP2342879	Great Britain	Granted	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users on one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
EP2613489	Great Britain	Granted	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users of one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
EP2613489	Hungary	Granted	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users of one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
1308/CHENP/2011	India	Pending	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users on one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
EP2342879	Italy	Granted	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users on one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010

EP2613489	Italy	Granted	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users of one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
5394491	Japan	Granted	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users on one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
5694478	Japan	Granted	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users on one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
10-1266071	Republic of Korea	Granted	MUROS modulation using linear baseband combinations with linear gaussian pulse shaping for two users on one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
EP2342879	Netherlands	Granted	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users on one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
EP2613489	Netherlands	Granted	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users of one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
2480933	Russian Federation	Granted	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users on one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
EP2613489	Turkey	Granted	MUROS modulation using linear baseband combinations with linear Gaussian pulse shaping for two users of one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
I478545	Taiwan	Granted	MUROS modulation using linear baseband combinations with linear gaussian pulse shaping for two users on one timeslot used by non-DARP and DARP remote stations	ATIS.3GPP.45.004V800-2010
8,588,773	United States	Granted	SYSTEM AND METHOD FOR CELL SEARCH AND SELECTION IN A WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.45.008V8160-2014
ZL200980130156.9	China P.R.	Granted	System and method for cell search and selection in a wireless communication system	ATIS.3GPP.45.008V8160-2014
201310316397.0	China P.R.	Pending	System and method for cell search and selection in a wireless communication system	ATIS.3GPP.45.008V8160-2014
09791151.5	European Patent Convention	Pending	System and method for cell search and selection in a wireless communication system	ATIS.3GPP.45.008V8160-2014
11166834.9	European Patent Convention	Pending	System and method for cell search and selection in a wireless communication system	ATIS.3GPP.45.008V8160-2014
526/CHENP/2011	India	Pending	System and method for cell search and selection in a wireless communication system	ATIS.3GPP.45.008V8160-2014
5209789	Japan	Granted	System and method for cell search and selection in a wireless communication system	ATIS.3GPP.45.008V8160-2014
10-1312460	Republic of Korea	Granted	System and method for cell search and selection in a wireless communication system	ATIS.3GPP.45.008V8160-2014
8,902,862	United States	Granted	Method and apparatus for sharing signals on a single channel	ATIS.3GPP.44.018V8170-2014

ZL200980131639.0	China P.R.	Granted	A method and apparatus for sharing signals on a single channel	ATIS.3GPP.44.018V8170-2014
EP2342878	Germany	Granted	A method and apparatus for sharing signals on a single channel	ATIS.3GPP.44.018V8170-2014
EP2342878	European Patent Convention	Granted	A method and apparatus for sharing signals on a single channel	ATIS.3GPP.44.018V8170-2014
EP2342878	Great Britain	Granted	A method and apparatus for sharing signals on a single channel	ATIS.3GPP.44.018V8170-2014
1452/CHENP/2011	India	Pending	A method and apparatus for sharing signals on a single channel	ATIS.3GPP.44.018V8170-2014
5431481	Japan	Granted	A method and apparatus for sharing signals on a single channel	ATIS.3GPP.44.018V8170-2014
10-1266075	Republic of Korea	Granted	A method and apparatus for sharing signals on a single channel	ATIS.3GPP.44.018V8170-2014
8,687,589	United States	Granted	Neighbor cell search on a secondary carrier	ATIS.3GPP.25.331V8250-2016
8,611,942	United States	Granted	Handling of MAC-HS/EHS reset in enhanced serving cell change	ATIS.3GPP.25.331V8250-2016
PI0917873-2	Brazil	Pending	Handling of MAC-HS/EHS reset in enhanced serving cell change	ATIS.3GPP.25.331V8250-2016
2732133	Canada	Pending	Handling of MAC-HS/EHS reset in enhanced serving cell change	ATIS.3GPP.25.331V8250-2016
ZL200980132043.2	China P.R.	Granted	Handling of MAC-HS/EHS reset in enhanced serving cell change	ATIS.3GPP.25.331V8250-2016
09791594.6	European Patent Convention	Pending	Handling of MAC-HS/EHS reset in enhanced serving cell change	ATIS.3GPP.25.331V8250-2016
631/CHENP/2011	India	Pending	Handling of MAC-HS/EHS reset in enhanced serving cell change	ATIS.3GPP.25.331V8250-2016
5547192	Japan	Granted	Handling of MAC-HS/EHS reset in enhanced serving cell change	ATIS.3GPP.25.331V8250-2016
10-1211020	Republic of Korea	Granted	Handling of MAC-HS/EHS reset in enhanced serving cell change	ATIS.3GPP.25.331V8250-2016
2479156	Russian Federation	Granted	Handling of MAC-HS/EHS reset in enhanced serving cell change	ATIS.3GPP.25.331V8250-2016
1407808	Taiwan	Granted	Handling of MAC-HS/EHS reset in enhanced serving cell change	ATIS.3GPP.25.331V8250-2016
9,173,197	United States	Granted	METHOD AND APPARATUS FOR SIGNALING TO A MOBILE DEVICE WHICH SET OF TRAINING SEQUENCE CODES TO USE FOR A COMMUNICATION LINK	ATIS.3GPP.44.018V8170-2014
EP2338259	Austria	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
2009292127	Australia	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
2014201105	Australia	Pending	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
2015282352	Australia	Pending	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
EP2338259	Belgium	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
PI0918184-9	Brazil	Pending	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
9,407,410	United States	Granted	METHOD AND APPARATUS FOR SIGNALING TO A MOBILE DEVICE WITH SET OF TRAINING SEQUENCE CODES TO USE FOR A COMMUNICATION LINK	ATIS.3GPP.44.018V8170-2014
14/521,861	United States	Pending	METHOD AND APPARATUS FOR SIGNALING TO A MOBILE DEVICE WHICH SET OF TRAINING SEQUENCE CODES TO USE FOR A COMMUNICATION LINK	ATIS.3GPP.44.018V8170-2014
9,184,894	United States	Granted	METHOD AND APPARATUS FOR SIGNALING TO A MOBILE DEVICE WITH SET OF TRAINING SEQUENCE CODES TO USE FOR A COMMUNICATION LINK	ATIS.3GPP.44.018V8170-2014
2735471	Canada	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
EP2338259	Switzerland	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014

ZL200980135753.0	China P.R.	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
201410314614.7	China P.R.	Pending	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
14111626.3	Hong Kong	Pending	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
201410314701.2	China P.R.	Pending	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
14111929.7	Hong Kong	Pending	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
HK1158406	Hong Kong	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
EP2338259	Germany	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
EP2338259	Denmark	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
EP2338259	European Patent Convention	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
13174393.2	European Patent Convention	Pending	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
13174397.3	European Patent Convention	Pending	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
EP2338259	Spain	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
EP2338259	Finland	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
EP2338259	France	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
EP2338259	Great Britain	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
EP2338259	Greece	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
EP2338259	Hungary	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
IDP000034445	Indonesia	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
EP2338259	Ireland	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
211262	Israel	Pending	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
1994/CHENP/2011	India	Pending	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
EP2338259	Italy	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014

5706018	Japan	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
10-1258488	Republic of Korea	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
EP2338259	Liechtenstein	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
308494	Mexico	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
MY-155165-A	Malaysia	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
EP2338259	Netherlands	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
EP2338259	Norway	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
1-2011-500387	Philippines	Pending	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
EP2338259	Poland	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
EP2338259	Portugal	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
EP2338259	Romania	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
2490811	Russian Federation	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
EP2338259	Sweden	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
169034	Singapore	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
I413372	Taiwan	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
101402	Ukraine	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
13704	Vietnam	Granted	A method and apparatus for signaling to a mobile device which set of training sequence codes to use for a communication link	ATIS.3GPP.44.018V8170-2014
8,417,252	United States	Granted	Method and apparatus for interference reporting in a N-MIMO communication system	ATIS.3GPP.36.213V1240-2015
PI0920815-1	Brazil	Pending	Method and apparatus for interference reporting in a N-MIMO communication system	ATIS.3GPP.36.213V1240-2015
9,426,670	United States	Granted	Method and apparatus for interference reporting in a N-MIMO communication system	ATIS.3GPP.36.213V1240-2015
ZL200980141886.9	China P.R.	Granted	Method and apparatus for interference reporting in a N-MIMO communication system	ATIS.3GPP.36.213V1240-2015
201510023206.0	China P.R.	Pending	Method and apparatus for interference reporting in a N-MIMO communication system	ATIS.3GPP.36.213V1240-2015

EP2351275	Germany	Granted	Method and apparatus for interference reporting in a N-MIMO communication system	ATIS.3GPP.36.213V1240-2015
EP2351275	European Patent Convention	Granted	Method and apparatus for interference reporting in a N-MIMO communication system	ATIS.3GPP.36.213V1240-2015
15165367.2	European Patent Convention	Pending	Method and apparatus for interference reporting in a N-MIMO communication system	ATIS.3GPP.36.213V1240-2015
EP2351275	Spain	Granted	Method and apparatus for interference reporting in a N-MIMO communication system	ATIS.3GPP.36.213V1240-2015
EP2351275	France	Granted	Method and apparatus for interference reporting in a N-MIMO communication system	ATIS.3GPP.36.213V1240-2015
EP2351275	Great Britain	Granted	Method and apparatus for interference reporting in a N-MIMO communication system	ATIS.3GPP.36.213V1240-2015
2355/CHENP/2011	India	Pending	Method and apparatus for interference reporting in a N-MIMO communication system	ATIS.3GPP.36.213V1240-2015
EP2351275	Italy	Granted	Method and apparatus for interference reporting in a N-MIMO communication system	ATIS.3GPP.36.213V1240-2015
5642688	Japan	Granted	Method and apparatus for interference reporting in a N-MIMO communication system	ATIS.3GPP.36.213V1240-2015
5710694	Japan	Granted	Method and apparatus for interference reporting in a N-MIMO communication system	ATIS.3GPP.36.213V1240-2015
5902276	Japan	Granted	Method and apparatus for interference reporting in a N-MIMO communication system	ATIS.3GPP.36.213V1240-2015
10-1325772	Republic of Korea	Granted	Method and apparatus for interference reporting in a N-MIMO communication system	ATIS.3GPP.36.213V1240-2015
10-1383185	Republic of Korea	Granted	Method and apparatus for interference reporting in a N-MIMO communication system	ATIS.3GPP.36.213V1240-2015
EP2351275	Netherlands	Granted	Method and apparatus for interference reporting in a N-MIMO communication system	ATIS.3GPP.36.213V1240-2015
I418167	Taiwan	Granted	Method and apparatus for interference reporting in a N-MIMO communication system	ATIS.3GPP.36.213V1240-2015
9,191,177	United States	Granted	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.300V8120-2010
ZL201080019625.2	China P.R.	Granted	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.300V8120-2010
201410136031.X	China P.R.	Pending	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.300V8120-2010
14/921,942	United States	Pending	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.300V8120-2010
EP2427985	Germany	Granted	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.300V8120-2010
EP2427985	European Patent Convention	Granted	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.300V8120-2010
EP2427985	Great Britain	Granted	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.300V8120-2010
7787/CHENP/2011	India	Pending	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.300V8120-2010
5596130	Japan	Granted	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.300V8120-2010
2014-053814	Japan	Pending	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.300V8120-2010
10-1407677	Republic of Korea	Granted	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.300V8120-2010
9,191,177	United States	Granted	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.331V8210-2016
ZL201080019625.2	China P.R.	Granted	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.331V8210-2016

201410136031.X	China P.R.	Pending	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.331V8210-2016
14/921,942	United States	Pending	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.331V8210-2016
EP2427985	Germany	Granted	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.331V8210-2016
EP2427985	European Patent Convention	Granted	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.331V8210-2016
EP2427985	Great Britain	Granted	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.331V8210-2016
7787/CHENP/2011	India	Pending	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.331V8210-2016
5596130	Japan	Granted	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.331V8210-2016
2014-053814	Japan	Pending	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.331V8210-2016
10-1407677	Republic of Korea	Granted	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.331V8210-2016
12/607,899	United States	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.25.413V880-2012
408/2011	United Arab Emirates	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.25.413V880-2012
2009308709	Australia	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.25.413V880-2012
2014201748	Australia	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.25.413V880-2012
PI0920230-7	Brazil	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.25.413V880-2012
2741688	Canada	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.25.413V880-2012
2838473	Canada	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.25.413V880-2012
ZL200980142560.8	China P.R.	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.25.413V880-2012
201410001164.6	China P.R.	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.25.413V880-2012
14108121.9	Hong Kong	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.25.413V880-2012
12102775.3	Hong Kong	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.25.413V880-2012
09752037.3	European Patent Convention	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.25.413V880-2012
14181974.8	European Patent Convention	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.25.413V880-2012
14181976.3	European Patent Convention	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.25.413V880-2012
IDP000037584	Indonesia	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.25.413V880-2012
2378/CHENP/2011	India	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.25.413V880-2012
5362835	Japan	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.25.413V880-2012
2015-079229	Japan	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.25.413V880-2012
10-1280412	Republic of Korea	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.25.413V880-2012
10-1409892	Republic of Korea	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.25.413V880-2012
2488239	Russian Federation	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.25.413V880-2012
I473512	Taiwan	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.25.413V880-2012
104100560	Taiwan	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.25.413V880-2012
2011/03982	South Africa	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.25.413V880-2012
12/610,853	United States	Pending	System and method to perform access control and paging using femto cells	ATIS.3GPP.25.467V860-2012
PI0921728-2	Brazil	Pending	System and method to perform access control and paging using femto cells	ATIS.3GPP.25.467V860-2012
BR1220120303348	Brazil	Pending	System and method to perform access control and paging using femto cells	ATIS.3GPP.25.467V860-2012
ZL200980143334.1	China P.R.	Granted	System and method to perform access control and paging using femto cells	ATIS.3GPP.25.467V860-2012
12102993.9	Hong Kong	Pending	System and method to perform access control and paging using femto cells	ATIS.3GPP.25.467V860-2012
09752256.9	European Patent Convention	Pending	System and method to perform access control and paging using femto cells	ATIS.3GPP.25.467V860-2012
12193276.8	European Patent Convention	Pending	System and method to perform access control and paging using femto cells	ATIS.3GPP.25.467V860-2012

W-00201101959	Indonesia	Pending	System and method to perform access control and paging using femto cells	ATIS.3GPP.25.467V860-2012
2838/CHENP/2011	India	Pending	System and method to perform access control and paging using femto cells	ATIS.3GPP.25.467V860-2012
5431491	Japan	Granted	System and method to perform access control and paging using femto cells	ATIS.3GPP.25.467V860-2012
5628375	Japan	Granted	System and method to perform access control and paging using femto cells	ATIS.3GPP.25.467V860-2012
10-1394904	Republic of Korea	Granted	System and method to perform access control and paging using femto cells	ATIS.3GPP.25.467V860-2012
10-1576188	Republic of Korea	Granted	System and method to perform access control and paging using femto cells	ATIS.3GPP.25.467V860-2012
PI 2011001919	Malaysia	Pending	System and method to perform access control and paging using femto cells	ATIS.3GPP.25.467V860-2012
2477933	Russian Federation	Granted	System and method to perform access control and paging using femto cells	ATIS.3GPP.25.467V860-2012
100783	Ukraine	Granted	System and method to perform access control and paging using femto cells	ATIS.3GPP.25.467V860-2012
1-2011-01426	Vietnam	Pending	System and method to perform access control and paging using femto cells	ATIS.3GPP.25.467V860-2012
2011/04112	South Africa	Granted	System and method to perform access control and paging using femto cells	ATIS.3GPP.25.467V860-2012
8,995,998	United States	Granted	Optimized signaling of primary scrambling codes and frequency lists in wireless communications	ATIS.3GPP.25.331V8250-2016
PI0921139-0	Brazil	Pending	Optimized signaling of primary scrambling codes and frequency lists in wireless communications	ATIS.3GPP.25.331V8250-2016
14/619,001	United States	Pending	Optimized signaling of primary scrambling codes and frequency lists in wireless communications	ATIS.3GPP.25.331V8250-2016
200980143587.9	China P.R.	Pending	Optimized signaling of primary scrambling codes and frequency lists in wireless communications	ATIS.3GPP.25.331V8250-2016
EP2363002	Germany	Granted	Optimized signaling of primary scrambling codes and frequency lists in wireless communications	ATIS.3GPP.25.331V8250-2016
EP2363002	European Patent Convention	Granted	Optimized signaling of primary scrambling codes and frequency lists in wireless communications	ATIS.3GPP.25.331V8250-2016
15199604.8	European Patent Convention	Pending	Optimized signaling of primary scrambling codes and frequency lists in wireless communications	ATIS.3GPP.25.331V8250-2016
EP2363002	Spain	Granted	Optimized signaling of primary scrambling codes and frequency lists in wireless communications	ATIS.3GPP.25.331V8250-2016
EP2363002	Finland	Granted	Optimized signaling of primary scrambling codes and frequency lists in wireless communications	ATIS.3GPP.25.331V8250-2016
EP2363002	France	Granted	Optimized signaling of primary scrambling codes and frequency lists in wireless communications	ATIS.3GPP.25.331V8250-2016
EP2363002	Great Britain	Granted	Optimized signaling of primary scrambling codes and frequency lists in wireless communications	ATIS.3GPP.25.331V8250-2016
EP2363002	Hungary	Granted	Optimized signaling of primary scrambling codes and frequency lists in wireless communications	ATIS.3GPP.25.331V8250-2016
2683/CHENP/2011	India	Pending	Optimized signaling of primary scrambling codes and frequency lists in wireless communications	ATIS.3GPP.25.331V8250-2016
EP2363002	Italy	Granted	Optimized signaling of primary scrambling codes and frequency lists in wireless communications	ATIS.3GPP.25.331V8250-2016
5529149	Japan	Granted	Optimized signaling of primary scrambling codes and frequency lists in wireless communications	ATIS.3GPP.25.331V8250-2016
5968946	Japan	Granted	Optimized signaling of primary scrambling codes and frequency lists in wireless communications	ATIS.3GPP.25.331V8250-2016

10-1615194	Republic of Korea	Granted	Optimized signaling of primary scrambling codes and frequency lists in wireless communications	ATIS.3GPP.25.331V8250-2016
10-2016-7010070	Republic of Korea	Pending	Optimized signaling of primary scrambling codes and frequency lists in wireless communications	ATIS.3GPP.25.331V8250-2016
EP2363002	Netherlands	Granted	Optimized signaling of primary scrambling codes and frequency lists in wireless communications	ATIS.3GPP.25.331V8250-2016
EP2363002	Turkey	Granted	Optimized signaling of primary scrambling codes and frequency lists in wireless communications	ATIS.3GPP.25.331V8250-2016
I435633	Taiwan	Granted	Optimized signaling of primary scrambling codes and frequency lists in wireless communications	ATIS.3GPP.25.331V8250-2016
I513342	Taiwan	Granted	Method, apparatus, and computer program product for provisioning cell identifier split information	ATIS.3GPP.25.331V8250-2016
7,643,450	United States	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.43.055V810-2010
2602105	Canada	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.43.055V810-2010
ZL200680010327.0	China P.R.	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.43.055V810-2010
EP1864542	Germany	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.43.055V810-2010
EP1864542	European Patent Convention	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.43.055V810-2010
EP1864542	Spain	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.43.055V810-2010
EP1864542	France	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.43.055V810-2010
EP1864542	Great Britain	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.43.055V810-2010
6661/DELNP/2007	India	Pending	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.43.055V810-2010
EP1864542	Italy	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.43.055V810-2010
PI 20061395	Malaysia	Pending	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.43.055V810-2010
EP1864542	Netherlands	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.43.055V810-2010
135755	Singapore	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.43.055V810-2010
I374681	Taiwan	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.43.055V810-2010
7,643,450	United States	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.008V8100-2014

2602105	Canada	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.008V8100-2014
ZL200680010327.0	China P.R.	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.008V8100-2014
EP1864542	Germany	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.008V8100-2014
EP1864542	European Patent Convention	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.008V8100-2014
EP1864542	Spain	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.008V8100-2014
EP1864542	France	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.008V8100-2014
EP1864542	Great Britain	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.008V8100-2014
6661/DELNP/2007	India	Pending	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.008V8100-2014
EP1864542	Italy	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.008V8100-2014
PI 20061395	Malaysia	Pending	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.008V8100-2014
EP1864542	Netherlands	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.008V8100-2014
135755	Singapore	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.008V8100-2014
I374681	Taiwan	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.008V8100-2014
7,643,450	United States	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.018V8110-2014
2602105	Canada	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.018V8110-2014
ZL200680010327.0	China P.R.	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.018V8110-2014
EP1864542	Germany	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.018V8110-2014
EP1864542	European Patent Convention	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.018V8110-2014
EP1864542	Spain	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.018V8110-2014
EP1864542	France	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.018V8110-2014
EP1864542	Great Britain	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.018V8110-2014
6661/DELNP/2007	India	Pending	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.018V8110-2014

EP1864542	Italy	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.018V8110-2014
PI 20061395	Malaysia	Pending	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.018V8110-2014
EP1864542	Netherlands	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.018V8110-2014
135755	Singapore	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.018V8110-2014
I374681	Taiwan	Granted	Utilizing a same target cell during circuit-switched and packet switched handover	ATIS.3GPP.48.018V8110-2014
7,016,342	United States	Granted	ENHANCEMENT OF DUAL TRANSFER MODE WHEN CIRCUIT SWITCHED RESOURCES ARE RELEASED	ATIS.3GPP.44.060V8170-2014
7,787,444	United States	Granted	ENHANCEMENT OF DUAL TRANSFER MODE WHEN CIRCUIT SWITCHED RESOURCES ARE RELEASED	ATIS.3GPP.44.060V8170-2014
EP1714448	Germany	Granted	Enhancement of dual transfer mode when circuit switched resources are released	ATIS.3GPP.44.060V8170-2014
EP2802186	Germany	Granted	Enhancement of dual transfer mode when circuit switched resources are released	ATIS.3GPP.44.060V8170-2014
EP1714448	European Patent Convention	Granted	Enhancement of dual transfer mode when circuit switched resources are released	ATIS.3GPP.44.060V8170-2014
EP2802186	European Patent Convention	Granted	Enhancement of dual transfer mode when circuit switched resources are released	ATIS.3GPP.44.060V8170-2014
EP1714448	Spain	Granted	Enhancement of dual transfer mode when circuit switched resources are released	ATIS.3GPP.44.060V8170-2014
EP1714448	France	Granted	Enhancement of dual transfer mode when circuit switched resources are released	ATIS.3GPP.44.060V8170-2014
EP2802186	France	Granted	Enhancement of dual transfer mode when circuit switched resources are released	ATIS.3GPP.44.060V8170-2014
EP1714448	Great Britain	Granted	Enhancement of dual transfer mode when circuit switched resources are released	ATIS.3GPP.44.060V8170-2014
EP2802186	Great Britain	Granted	Enhancement of dual transfer mode when circuit switched resources are released	ATIS.3GPP.44.060V8170-2014
4635/DELNP/2006	India	Pending	Enhancement of dual transfer mode when circuit switched resources are released	ATIS.3GPP.44.060V8170-2014
EP1714448	Italy	Granted	Enhancement of dual transfer mode when circuit switched resources are released	ATIS.3GPP.44.060V8170-2014
EP1714448	Netherlands	Granted	Enhancement of dual transfer mode when circuit switched resources are released	ATIS.3GPP.44.060V8170-2014
4685	Peru	Granted	Method and system for the transitoriness in a wireless communication system of dual mode to a simple one	ATIS.3GPP.44.060V8170-2014
124165	Singapore	Granted	Enhancement of dual transfer mode when circuit switched resources are released	ATIS.3GPP.44.060V8170-2014
096796	Thailand	Pending	Enhancement of dual transfer mode when circuit switched resources are released	ATIS.3GPP.44.060V8170-2014

I362197	Taiwan	Granted	Enhancement of dual transfer mode when circuit switched resources are released	ATIS.3GPP.44.060V8170-2014
2005-000105	Venezuela	Pending	Enhancement of dual transfer mode when circuit switched resources are released	ATIS.3GPP.44.060V8170-2014
8305	Vietnam	Granted	Enhancement of dual transfer mode when circuit switched resources are released	ATIS.3GPP.44.060V8170-2014
7,289,452	United States	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.25.321V8170-2014
2003257870	Australia	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.25.321V8170-2014
PI0304678-8	Brazil	Pending	Transport block size (TBS) signaling enhancement	ATIS.3GPP.25.321V8170-2014
2446024	Canada	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.25.321V8170-2014
2623280	Canada	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.25.321V8170-2014
ZL200310104364.6	China P.R.	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.25.321V8170-2014
EP1414202	Germany	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.25.321V8170-2014
EP1833209	Germany	Granted	Transport block size (TBS) signalling enhancement	ATIS.3GPP.25.321V8170-2014
EP1414202	European Patent Convention	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.25.321V8170-2014
EP1833209	European Patent Convention	Granted	Transport block size (TBS) signalling enhancement	ATIS.3GPP.25.321V8170-2014
11105649.1	Hong Kong	Pending	Transport block size (TBS) signaling enhancement	ATIS.3GPP.25.321V8170-2014
EP1414202	Spain	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.25.321V8170-2014
EP1833209	Spain	Granted	Transport block size (TBS) signalling enhancement	ATIS.3GPP.25.321V8170-2014
EP1833209	Finland	Granted	Transport block size (TBS) signalling enhancement	ATIS.3GPP.25.321V8170-2014
EP1414202	France	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.25.321V8170-2014
EP1833209	France	Granted	Transport block size (TBS) signalling enhancement	ATIS.3GPP.25.321V8170-2014
EP1414202	Great Britain	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.25.321V8170-2014
EP1833209	Great Britain	Granted	Transport block size (TBS) signalling enhancement	ATIS.3GPP.25.321V8170-2014
EP1414202	Hungary	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.25.321V8170-2014
EP1833209	Hungary	Granted	Transport block size (TBS) signalling enhancement	ATIS.3GPP.25.321V8170-2014
198686	India	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.25.321V8170-2014
EP1414202	Italy	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.25.321V8170-2014
EP1833209	Italy	Granted	Transport block size (TBS) signalling enhancement	ATIS.3GPP.25.321V8170-2014
3850826	Japan	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.25.321V8170-2014
10-0553022	Republic of Korea	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.25.321V8170-2014
239881	Mexico	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.25.321V8170-2014
MY-143944-A	Malaysia	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.25.321V8170-2014
EP1414202	Netherlands	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.25.321V8170-2014
EP1833209	Netherlands	Granted	Transport block size (TBS) signalling enhancement	ATIS.3GPP.25.321V8170-2014
EP1414202	Romania	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.25.321V8170-2014
2274955	Russian Federation	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.25.321V8170-2014
EP1833209	Turkey	Granted	Transport block size (TBS) signalling enhancement	ATIS.3GPP.25.321V8170-2014
I253255	Taiwan	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.25.321V8170-2014
6,765,891	United States	Granted	Method and apparatus providing for the immediate start of 3G measurements in dedicated mode on a cell with a packet broadcast control channel	ATIS.3GPP.44.018V8170-2014

ZL03807787.6	China P.R.	Granted	3G measurements in PBCCH cell in dedicated GSM mode	ATIS.3GPP.44.018V8170-2014
ZL200810125005.1	China P.R.	Granted	3G measurements in PBCCH cell in dedicated GSM mode	ATIS.3GPP.44.018V8170-2014
EP1490988	Germany	Granted	3G measurements in PBCCH cell in dedicated GSM mode	ATIS.3GPP.44.018V8170-2014
EP1490988	European Patent Convention	Granted	3G measurements in PBCCH cell in dedicated GSM mode	ATIS.3GPP.44.018V8170-2014
EP1490988	Spain	Granted	3G measurements in PBCCH cell in dedicated GSM mode	ATIS.3GPP.44.018V8170-2014
EP1490988	France	Granted	3G measurements in PBCCH cell in dedicated GSM mode	ATIS.3GPP.44.018V8170-2014
EP1490988	Great Britain	Granted	3G measurements in PBCCH cell in dedicated GSM mode	ATIS.3GPP.44.018V8170-2014
248749	India	Granted	3G measurements in PBCCH cell in dedicated GSM mode	ATIS.3GPP.44.018V8170-2014
EP1490988	Italy	Granted	3G measurements in PBCCH cell in dedicated GSM mode	ATIS.3GPP.44.018V8170-2014
4541710	Japan	Granted	3G measurements in PBCCH cell in dedicated GSM mode	ATIS.3GPP.44.018V8170-2014
10-1018543	Republic of Korea	Granted	3G measurements in PBCCH cell in dedicated GSM mode	ATIS.3GPP.44.018V8170-2014
PI20031087	Malaysia	Pending	Method and apparatus providing for the immediate start of 3G measurements in dedicated mode on a cell with a packet broadcast control channel	ATIS.3GPP.44.018V8170-2014
2320098	Russian Federation	Granted	Method and apparatus providing for the immediate start of 3G measurements in dedicated mode on a cell with a packet broadcast control channel	ATIS.3GPP.44.018V8170-2014
I265740	Taiwan	Granted	Method and apparatus providing for the immediate start of 3G measurements dedicated mode on a cell with a packet broadcast control channel	ATIS.3GPP.44.018V8170-2014
2004/7930	South Africa	Granted	3G measurements in PBCCH cell in dedicated GSM mode	ATIS.3GPP.44.018V8170-2014
6,765,891	United States	Granted	Method and apparatus providing for the immediate start of 3G measurements in dedicated mode on a cell with a packet broadcast control channel	ATIS.3GPP.44.060V8170-2014
ZL03807787.6	China P.R.	Granted	3G measurements in PBCCH cell in dedicated GSM mode	ATIS.3GPP.44.060V8170-2014
ZL200810125005.1	China P.R.	Granted	3G measurements in PBCCH cell in dedicated GSM mode	ATIS.3GPP.44.060V8170-2014
EP1490988	Germany	Granted	3G measurements in PBCCH cell in dedicated GSM mode	ATIS.3GPP.44.060V8170-2014
EP1490988	European Patent Convention	Granted	3G measurements in PBCCH cell in dedicated GSM mode	ATIS.3GPP.44.060V8170-2014
EP1490988	Spain	Granted	3G measurements in PBCCH cell in dedicated GSM mode	ATIS.3GPP.44.060V8170-2014
EP1490988	France	Granted	3G measurements in PBCCH cell in dedicated GSM mode	ATIS.3GPP.44.060V8170-2014
EP1490988	Great Britain	Granted	3G measurements in PBCCH cell in dedicated GSM mode	ATIS.3GPP.44.060V8170-2014
248749	India	Granted	3G measurements in PBCCH cell in dedicated GSM mode	ATIS.3GPP.44.060V8170-2014
EP1490988	Italy	Granted	3G measurements in PBCCH cell in dedicated GSM mode	ATIS.3GPP.44.060V8170-2014
4541710	Japan	Granted	3G measurements in PBCCH cell in dedicated GSM mode	ATIS.3GPP.44.060V8170-2014
10-1018543	Republic of Korea	Granted	3G measurements in PBCCH cell in dedicated GSM mode	ATIS.3GPP.44.060V8170-2014
PI20031087	Malaysia	Pending	Method and apparatus providing for the immediate start of 3G measurements in dedicated mode on a cell with a packet broadcast control channel	ATIS.3GPP.44.060V8170-2014
2320098	Russian Federation	Granted	Method and apparatus providing for the immediate start of 3G measurements in dedicated mode on a cell with a packet broadcast control channel	ATIS.3GPP.44.060V8170-2014
I265740	Taiwan	Granted	Method and apparatus providing for the immediate start of 3G measurements dedicated mode on a cell with a packet broadcast control channel	ATIS.3GPP.44.060V8170-2014
2004/7930	South Africa	Granted	3G measurements in PBCCH cell in dedicated GSM mode	ATIS.3GPP.44.060V8170-2014
6,748,219	United States	Granted	Method for dynamically mapping channels for new GSM frequency bands	ATIS.3GPP.44.060V8170-2014
PI0206257-7	Brazil	Pending	Method and device to supply a dynamic mapping	ATIS.3GPP.44.060V8170-2014
2431726	Canada	Granted	Method for dynamically mapping channels for new GSM frequency bands	ATIS.3GPP.44.060V8170-2014

ZL02803562.3	China P.R.	Granted	Method for dynamically mapping channels for new GSM frequency bands	ATIS.3GPP.44.060V8170-2014
EP1350397	Germany	Granted	Method for dynamically mapping channels for new GSM frequency bands	ATIS.3GPP.44.060V8170-2014
EP1350397	European Patent Convention	Granted	Method for dynamically mapping channels for new GSM frequency bands	ATIS.3GPP.44.060V8170-2014
EP1350397	Spain	Granted	Method for dynamically mapping channels for new GSM frequency bands	ATIS.3GPP.44.060V8170-2014
EP1350397	France	Granted	Method for dynamically mapping channels for new GSM frequency bands	ATIS.3GPP.44.060V8170-2014
EP1350397	Great Britain	Granted	Method for dynamically mapping channels for new GSM frequency bands	ATIS.3GPP.44.060V8170-2014
EP1350397	Italy	Granted	Method for dynamically mapping channels for new GSM frequency bands	ATIS.3GPP.44.060V8170-2014
10-0593458	Republic of Korea	Granted	Method for dynamically mapping channels for new GSM frequency bands	ATIS.3GPP.44.060V8170-2014
2003/04872	South Africa	Granted	Method for dynamically mapping channels for new GSM frequency bands	ATIS.3GPP.44.060V8170-2014
6,748,219	United States	Granted	Method for dynamically mapping channels for new GSM frequency bands	ATIS.3GPP.45.005V8170-2014
PI0206257-7	Brazil	Pending	Method and device to supply a dynamic mapping	ATIS.3GPP.45.005V8170-2014
2431726	Canada	Granted	Method for dynamically mapping channels for new GSM frequency bands	ATIS.3GPP.45.005V8170-2014
ZL02803562.3	China P.R.	Granted	Method for dynamically mapping channels for new GSM frequency bands	ATIS.3GPP.45.005V8170-2014
EP1350397	Germany	Granted	Method for dynamically mapping channels for new GSM frequency bands	ATIS.3GPP.45.005V8170-2014
EP1350397	European Patent Convention	Granted	Method for dynamically mapping channels for new GSM frequency bands	ATIS.3GPP.45.005V8170-2014
EP1350397	Spain	Granted	Method for dynamically mapping channels for new GSM frequency bands	ATIS.3GPP.45.005V8170-2014
EP1350397	France	Granted	Method for dynamically mapping channels for new GSM frequency bands	ATIS.3GPP.45.005V8170-2014
EP1350397	Great Britain	Granted	Method for dynamically mapping channels for new GSM frequency bands	ATIS.3GPP.45.005V8170-2014
EP1350397	Italy	Granted	Method for dynamically mapping channels for new GSM frequency bands	ATIS.3GPP.45.005V8170-2014
10-0593458	Republic of Korea	Granted	Method for dynamically mapping channels for new GSM frequency bands	ATIS.3GPP.45.005V8170-2014
2003/04872	South Africa	Granted	Method for dynamically mapping channels for new GSM frequency bands	ATIS.3GPP.45.005V8170-2014
7,136,363	United States	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay when providing packet PSI status	ATIS.3GPP.44.060V8170-2014
EP1798996	Austria	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay	ATIS.3GPP.44.060V8170-2014
EP1798996	Belgium	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay	ATIS.3GPP.44.060V8170-2014
PI0206380-8	Brazil	Pending	Method and apparatus for improving radio spectrum usage and decreasing user data delay when providing packet PSI status	ATIS.3GPP.44.060V8170-2014
8,189,515	United States	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay when providing packet PSI status	ATIS.3GPP.44.060V8170-2014
2434266	Canada	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay when providing packet PSI status	ATIS.3GPP.44.060V8170-2014
EP1798996	Switzerland	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay	ATIS.3GPP.44.060V8170-2014
ZL02806247.7	China P.R.	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay when providing packet PSI status	ATIS.3GPP.44.060V8170-2014
ZL200710180200.X	China P.R.	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay when providing packet PSI status	ATIS.3GPP.44.060V8170-2014
EP1352532	Germany	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay when providing packet PSI status	ATIS.3GPP.44.060V8170-2014

EP1798996	Germany	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay	ATIS.3GPP.44.060V8170-2014
EP1798996	Denmark	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay	ATIS.3GPP.44.060V8170-2014
EP1352532	European Patent Convention	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay when providing packet PSI status	ATIS.3GPP.44.060V8170-2014
EP1798996	European Patent Convention	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay	ATIS.3GPP.44.060V8170-2014
EP1798996	Finland	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay	ATIS.3GPP.44.060V8170-2014
EP1798996	France	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay	ATIS.3GPP.44.060V8170-2014
EP1352532	Great Britain	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay when providing packet PSI status	ATIS.3GPP.44.060V8170-2014
EP1798996	Great Britain	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay	ATIS.3GPP.44.060V8170-2014
EP1798996	Greece	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay	ATIS.3GPP.44.060V8170-2014
HK1056661	Hong Kong	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay when providing packet PSI status	ATIS.3GPP.44.060V8170-2014
HK1117323	Hong Kong	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay	ATIS.3GPP.44.060V8170-2014
EP1798996	Ireland	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay	ATIS.3GPP.44.060V8170-2014
EP1798996	Italy	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay	ATIS.3GPP.44.060V8170-2014
4184792	Japan	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay when providing packet PSI status	ATIS.3GPP.44.060V8170-2014
10-0649542	Republic of Korea	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay when providing packet PSI status	ATIS.3GPP.44.060V8170-2014
EP1798996	Netherlands	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay	ATIS.3GPP.44.060V8170-2014
EP1798996	Portugal	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay	ATIS.3GPP.44.060V8170-2014
RE42,586	United States	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay when providing packet PSI status	ATIS.3GPP.44.060V8170-2014
EP1798996	Sweden	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay	ATIS.3GPP.44.060V8170-2014
98220	Singapore	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay when providing packet PSI status	ATIS.3GPP.44.060V8170-2014
2003/5311	South Africa	Granted	Method and apparatus for improving radio spectrum usage and decreasing user data delay	ATIS.3GPP.44.060V8170-2014
7,167,475	United States	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.322V890-2012
EP1266500	Austria	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.322V890-2012

PI0108226-4	Brazil	Pending	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.322V890-2012
2398486	Canada	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.322V890-2012
ZL01805039.5	China P.R.	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.322V890-2012
ZL200410061526.7	China P.R.	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.322V890-2012
EP1266500	Germany	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.322V890-2012
EP1266500	Denmark	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.322V890-2012
EP1266500	European Patent Convention	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.322V890-2012
EP1266500	Spain	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.322V890-2012
112305	Finland	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.322V890-2012
EP1266500	France	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.322V890-2012
EP1266500	Great Britain	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.322V890-2012
EP1266500	Greece	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.322V890-2012
EP1266500	Italy	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.322V890-2012
4376486	Japan	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.322V890-2012
4652358	Japan	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.322V890-2012
10-0458533	Republic of Korea	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.322V890-2012
EP1266500	Netherlands	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.322V890-2012
90538	Singapore	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.322V890-2012
EP1266500	Turkey	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.322V890-2012
2002/6438	South Africa	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.322V890-2012
7,167,475	United States	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.323V850-2010
EP1266500	Austria	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.323V850-2010
PI0108226-4	Brazil	Pending	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.323V850-2010
2398486	Canada	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.323V850-2010
ZL01805039.5	China P.R.	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.323V850-2010
ZL200410061526.7	China P.R.	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.323V850-2010
EP1266500	Germany	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.323V850-2010
EP1266500	Denmark	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.323V850-2010
EP1266500	European Patent Convention	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.323V850-2010
EP1266500	Spain	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.323V850-2010
112305	Finland	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.323V850-2010
EP1266500	France	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.323V850-2010
EP1266500	Great Britain	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.323V850-2010
EP1266500	Greece	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.323V850-2010
EP1266500	Italy	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.323V850-2010
4376486	Japan	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.323V850-2010
4652358	Japan	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.323V850-2010
10-0458533	Republic of Korea	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.323V850-2010
EP1266500	Netherlands	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.323V850-2010
90538	Singapore	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.323V850-2010

EP1266500	Turkey	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.323V850-2010
2002/6438	South Africa	Granted	Data packet numbering in packet-switched data transmission	ATIS.3GPP.25.323V850-2010
7,016,678	United States	Granted	METHOD AND ARRANGEMENT FOR AVOIDING LOSS OF ERROR-CRITICAL NON REAL TIME DATA DURING CERTAIN HANDOVERS	ATIS.3GPP.25.303V800-2008
EP1131973	Austria	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.303V800-2008
EP1131973	Belgium	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.303V800-2008
EP1131973	Switzerland	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.303V800-2008
ZL99813624.7	China P.R.	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.303V800-2008
EP1131973	Germany	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.303V800-2008
EP1131973	European Patent Convention	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.303V800-2008
EP1131973	Spain	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.303V800-2008
107864	Finland	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.303V800-2008
EP1131973	France	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.303V800-2008
EP1131973	Great Britain	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.303V800-2008
EP1131973	Italy	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.303V800-2008
3507440	Japan	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.303V800-2008
EP1131973	Netherlands	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.303V800-2008
EP1131973	Sweden	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.303V800-2008
7,016,678	United States	Granted	METHOD AND ARRANGEMENT FOR AVOIDING LOSS OF ERROR-CRITICAL NON REAL TIME DATA DURING CERTAIN HANDOVERS	ATIS.3GPP.25.322V890-2012
EP1131973	Austria	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.322V890-2012
EP1131973	Belgium	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.322V890-2012
EP1131973	Switzerland	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.322V890-2012
ZL99813624.7	China P.R.	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.322V890-2012
EP1131973	Germany	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.322V890-2012

EP1131973	European Patent Convention	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.322V890-2012
EP1131973	Spain	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.322V890-2012
107864	Finland	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.322V890-2012
EP1131973	France	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.322V890-2012
EP1131973	Great Britain	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.322V890-2012
EP1131973	Italy	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.322V890-2012
3507440	Japan	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.322V890-2012
EP1131973	Netherlands	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.322V890-2012
EP1131973	Sweden	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.322V890-2012
7,016,678	United States	Granted	METHOD AND ARRANGEMENT FOR AVOIDING LOSS OF ERROR-CRITICAL NON REAL TIME DATA DURING CERTAIN HANDOVERS	ATIS.3GPP.25.331V8250-2016
EP1131973	Austria	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.331V8250-2016
EP1131973	Belgium	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.331V8250-2016
EP1131973	Switzerland	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.331V8250-2016
ZL99813624.7	China P.R.	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.331V8250-2016
EP1131973	Germany	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.331V8250-2016
EP1131973	European Patent Convention	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.331V8250-2016
EP1131973	Spain	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.331V8250-2016
107864	Finland	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.331V8250-2016
EP1131973	France	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.331V8250-2016
EP1131973	Great Britain	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.331V8250-2016
EP1131973	Italy	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.331V8250-2016
3507440	Japan	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.331V8250-2016

EP1131973	Netherlands	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.331V8250-2016
EP1131973	Sweden	Granted	Method and arrangement for avoiding loss of error-critical non-real time data during certain handovers	ATIS.3GPP.25.331V8250-2016
6,385,451	United States	Granted	Handover between mobile communication networks	ATIS.3GPP.23.107V820-2014
ZL99810886.3	China P.R.	Granted	Handover between mobile communication networks	ATIS.3GPP.23.107V820-2014
EP1114564	Germany	Granted	Handover between mobile communication networks	ATIS.3GPP.23.107V820-2014
EP1114564	European Patent Convention	Granted	Handover between mobile communication networks	ATIS.3GPP.23.107V820-2014
EP1114564	Great Britain	Granted	Handover between mobile communication networks	ATIS.3GPP.23.107V820-2014
3433186	Japan	Granted	Handover between mobile communication networks	ATIS.3GPP.23.107V820-2014
6,539,236	United States	Granted	CONNECTION ESTABLISHMENT METHOD, A SUBSCRIBER TERMINAL UNIT AND A RADIO SYSTEM	ATIS.3GPP.25.304V8120-2012
EP1437913	Austria	Granted	Establishment of macro diversity with random access type connections in a cellular radio system	ATIS.3GPP.25.304V8120-2012
719096	Australia	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.304V8120-2012
EP0953259	Belgium	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.304V8120-2012
EP1437913	Belgium	Granted	Establishment of Macro Diversity with Random Access Type connections in a cellular radio System	ATIS.3GPP.25.304V8120-2012
EP0953259	Switzerland	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.304V8120-2012
EP1437913	Switzerland	Granted	Establishment of macro diversity with random access type connections in a cellular radio system	ATIS.3GPP.25.304V8120-2012
ZL97192111.3	China P.R.	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.304V8120-2012
EP0953259	Germany	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.304V8120-2012
EP1437913	Germany	Granted	Establishment of macro diversity with random access type connections in a cellular radio system	ATIS.3GPP.25.304V8120-2012
EP0953259	European Patent Convention	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.304V8120-2012
EP1437913	European Patent Convention	Granted	Establishment of macro diversity with random access type connections in a cellular radio system	ATIS.3GPP.25.304V8120-2012
EP0953259	Spain	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.304V8120-2012
EP1437913	Spain	Granted	Establishment of macro diversity with random access type connections in a cellular radio system	ATIS.3GPP.25.304V8120-2012
EP0953259	France	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.304V8120-2012
EP1437913	France	Granted	Establishment of macro diversity with random access type connections in a cellular radio system	ATIS.3GPP.25.304V8120-2012
EP0953259	Great Britain	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.304V8120-2012

EP1437913	Great Britain	Granted	Establishment of macro diversity with random access type connections in a cellular radio system	ATIS.3GPP.25.304V8120-2012
EP0953259	Italy	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.304V8120-2012
EP1437913	Italy	Granted	Establishment of macro diversity with random access type connections in a cellular radio system	ATIS.3GPP.25.304V8120-2012
4020967	Japan	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.304V8120-2012
EP0953259	Netherlands	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.304V8120-2012
EP1437913	Netherlands	Granted	Establishment of macro diversity with random access type connections in a cellular radio system	ATIS.3GPP.25.304V8120-2012
316591	Norway	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.304V8120-2012
RE39,381	United States	Granted	Establishment of a connection between a base station and a mobile station using random access channels	ATIS.3GPP.25.304V8120-2012
EP0953259	Sweden	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.304V8120-2012
EP1437913	Sweden	Granted	Establishment of macro diversity with random access type connections in a cellular radio system	ATIS.3GPP.25.304V8120-2012
6,539,236	United States	Granted	CONNECTION ESTABLISHMENT METHOD, A SUBSCRIBER TERMINAL UNIT AND A RADIO SYSTEM	ATIS.3GPP.25.331V8250-2016
EP1437913	Austria	Granted	Establishment of macro diversity with random access type connections in a cellular radio system	ATIS.3GPP.25.331V8250-2016
719096	Australia	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.331V8250-2016
EP0953259	Belgium	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.331V8250-2016
EP1437913	Belgium	Granted	Establishment of Macro Diversity with Random Access Type connections in a cellular radio System	ATIS.3GPP.25.331V8250-2016
EP0953259	Switzerland	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.331V8250-2016
EP1437913	Switzerland	Granted	Establishment of macro diversity with random access type connections in a cellular radio system	ATIS.3GPP.25.331V8250-2016
ZL97192111.3	China P.R.	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.331V8250-2016
EP0953259	Germany	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.331V8250-2016
EP1437913	Germany	Granted	Establishment of macro diversity with random access type connections in a cellular radio system	ATIS.3GPP.25.331V8250-2016
EP0953259	European Patent Convention	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.331V8250-2016
EP1437913	European Patent Convention	Granted	Establishment of macro diversity with random access type connections in a cellular radio system	ATIS.3GPP.25.331V8250-2016

EP0953259	Spain	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.331V8250-2016
EP1437913	Spain	Granted	Establishment of macro diversity with random access type connections in a cellular radio system	ATIS.3GPP.25.331V8250-2016
EP0953259	France	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.331V8250-2016
EP1437913	France	Granted	Establishment of macro diversity with random access type connections in a cellular radio system	ATIS.3GPP.25.331V8250-2016
EP0953259	Great Britain	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.331V8250-2016
EP1437913	Great Britain	Granted	Establishment of macro diversity with random access type connections in a cellular radio system	ATIS.3GPP.25.331V8250-2016
EP0953259	Italy	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.331V8250-2016
EP1437913	Italy	Granted	Establishment of macro diversity with random access type connections in a cellular radio system	ATIS.3GPP.25.331V8250-2016
4020967	Japan	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.331V8250-2016
EP0953259	Netherlands	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.331V8250-2016
EP1437913	Netherlands	Granted	Establishment of macro diversity with random access type connections in a cellular radio system	ATIS.3GPP.25.331V8250-2016
316591	Norway	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.331V8250-2016
RE39,381	United States	Granted	Establishment of a connection between a base station and a mobile station using random access channels	ATIS.3GPP.25.331V8250-2016
EP0953259	Sweden	Granted	A connection establishment method, a subscriber terminal unit and a radio system	ATIS.3GPP.25.331V8250-2016
EP1437913	Sweden	Granted	Establishment of macro diversity with random access type connections in a cellular radio system	ATIS.3GPP.25.331V8250-2016
6,359,865	United States	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.211V870-2012
747896	Australia	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.211V870-2012
EP1021874	Switzerland	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.211V870-2012
ZL98809032.5	China P.R.	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.211V870-2012
EP1021874	Germany	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.211V870-2012
EP1021874	Denmark	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.211V870-2012
EP1021874	European Patent Convention	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.211V870-2012
EP1021874	Spain	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.211V870-2012
103446	Finland	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.211V870-2012
EP1021874	France	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.211V870-2012
EP1021874	Great Britain	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.211V870-2012
EP1021874	Greece	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.211V870-2012
EP1021874	Italy	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.211V870-2012

3745224	Japan	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.211V870-2012
330540	Norway	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.211V870-2012
EP1021874	Sweden	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.211V870-2012
6,359,865	United States	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.213V850-2010
747896	Australia	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.213V850-2010
EP1021874	Switzerland	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.213V850-2010
ZL98809032.5	China P.R.	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.213V850-2010
EP1021874	Germany	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.213V850-2010
EP1021874	Denmark	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.213V850-2010
EP1021874	European Patent Convention	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.213V850-2010
EP1021874	Spain	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.213V850-2010
103446	Finland	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.213V850-2010
EP1021874	France	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.213V850-2010
EP1021874	Great Britain	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.213V850-2010
EP1021874	Greece	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.213V850-2010
EP1021874	Italy	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.213V850-2010
3745224	Japan	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.213V850-2010
330540	Norway	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.213V850-2010
EP1021874	Sweden	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.213V850-2010
6,359,865	United States	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.308V8111-2014
747896	Australia	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.308V8111-2014
EP1021874	Switzerland	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.308V8111-2014
ZL98809032.5	China P.R.	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.308V8111-2014
EP1021874	Germany	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.308V8111-2014
EP1021874	Denmark	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.308V8111-2014
EP1021874	European Patent Convention	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.308V8111-2014
EP1021874	Spain	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.308V8111-2014
103446	Finland	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.308V8111-2014
EP1021874	France	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.308V8111-2014
EP1021874	Great Britain	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.308V8111-2014
EP1021874	Greece	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.308V8111-2014
EP1021874	Italy	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.308V8111-2014
3745224	Japan	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.308V8111-2014
330540	Norway	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.308V8111-2014
EP1021874	Sweden	Granted	Method of implementing macrodiversity	ATIS.3GPP.25.308V8111-2014
7,289,630	United States	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.25.331V8250-2016
EP1264506	Austria	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.25.331V8250-2016
PI0108832-7	Brazil	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.25.331V8250-2016
7,577,256	United States	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.25.331V8250-2016
8,155,319	United States	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.25.331V8250-2016

2401057	Canada	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.25.331V8250-2016
EP1264506	Switzerland	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.25.331V8250-2016
ZL01805864.7	China P.R.	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.25.331V8250-2016
EP1264506	Germany	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.25.331V8250-2016
EP1264506	European Patent Convention	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.25.331V8250-2016
EP1264506	Spain	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.25.331V8250-2016
110974	Finland	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.25.331V8250-2016
EP1264506	France	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.25.331V8250-2016
EP1264506	Great Britain	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.25.331V8250-2016
EP1264506	Italy	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.25.331V8250-2016
3706580	Japan	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.25.331V8250-2016
10-0689251	Republic of Korea	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.25.331V8250-2016
EP1264506	Netherlands	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.25.331V8250-2016
EP1264506	Sweden	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.25.331V8250-2016
EP1264506	Turkey	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.25.331V8250-2016
7,289,630	United States	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.33.102V1020-2016
EP1264506	Austria	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.33.102V1020-2016
PI0108832-7	Brazil	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.33.102V1020-2016
7,577,256	United States	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.33.102V1020-2016
8,155,319	United States	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.33.102V1020-2016
2401057	Canada	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.33.102V1020-2016
EP1264506	Switzerland	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.33.102V1020-2016
ZL01805864.7	China P.R.	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.33.102V1020-2016
EP1264506	Germany	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.33.102V1020-2016
EP1264506	European Patent Convention	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.33.102V1020-2016
EP1264506	Spain	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.33.102V1020-2016
110974	Finland	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.33.102V1020-2016
EP1264506	France	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.33.102V1020-2016
EP1264506	Great Britain	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.33.102V1020-2016
EP1264506	Italy	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.33.102V1020-2016
3706580	Japan	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.33.102V1020-2016
10-0689251	Republic of Korea	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.33.102V1020-2016
EP1264506	Netherlands	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.33.102V1020-2016
EP1264506	Sweden	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.33.102V1020-2016
EP1264506	Turkey	Granted	Counter initialization, particularly for radio frames	ATIS.3GPP.33.102V1020-2016
6,658,064	United States	Granted	Method for transmitting background noise information in data transmission in data frames	ATIS.3GPP.45.003V830-2010
757352	Australia	Granted	A method, communication system, mobile station and network element for transmitting background noise information in data transmission in data frames	ATIS.3GPP.45.003V830-2010
PI9912994-9	Brazil	Granted	A method, communication system, mobile station and network element for transmitting background noise information in data transmission in data frames	ATIS.3GPP.45.003V830-2010

ZL99810506.6	China P.R.	Granted	A method, communication system, mobile station and network element for transmitting background noise information in data transmission in data frames	ATIS.3GPP.45.003V830-2010
19941331	Germany	Granted	A method, communication system, mobile station and network element for transmitting background noise information in data transmission in data frames	ATIS.3GPP.45.003V830-2010
105635	Finland	Granted	Method for transmitting background noise information in data transmission in data frames	ATIS.3GPP.45.003V830-2010
9910952	France	Granted	A method, communication system, mobile station and network element for transmitting background noise information in data transmission in data frames	ATIS.3GPP.45.003V830-2010
GB2344722	Great Britain	Granted	Method for transmitting background noise information in data transmission in data frames	ATIS.3GPP.45.003V830-2010
1313290	Italy	Granted	A method, communication system, mobile station and network element for transmitting background noise information in data transmission in data frames	ATIS.3GPP.45.003V830-2010
3424918	Japan	Granted	A method, communication system, mobile station and network element for transmitting background noise information in data transmission in data frames	ATIS.3GPP.45.003V830-2010
10-0470596	Republic of Korea	Granted	A method, communication system, mobile station and network element for transmitting background noise information in data transmission in data frames	ATIS.3GPP.45.003V830-2010
6,754,286	United States	Granted	Transmit diversity method and system	ATIS.3GPP.25.214V8130-2014
771457	Australia	Granted	Transmit diversity method and system	ATIS.3GPP.25.214V8130-2014
EP1097525	Belgium	Granted	Transmit diversity method and system	ATIS.3GPP.25.214V8130-2014
2371384	Canada	Granted	Transmit diversity method and system	ATIS.3GPP.25.214V8130-2014
EP1097525	Switzerland	Granted	Transmit diversity method and system	ATIS.3GPP.25.214V8130-2014
ZL00800870.1	China P.R.	Granted	Transmit diversity method and system	ATIS.3GPP.25.214V8130-2014
EP1097525	Germany	Granted	Transmit diversity method and system	ATIS.3GPP.25.214V8130-2014
EP1097525	European Patent Convention	Granted	Transmit diversity method and system	ATIS.3GPP.25.214V8130-2014
EP1097525	Spain	Granted	Transmit diversity method and system	ATIS.3GPP.25.214V8130-2014
EP1097525	France	Granted	Transmit diversity method and system	ATIS.3GPP.25.214V8130-2014
EP1097525	Great Britain	Granted	Transmit diversity method and system	ATIS.3GPP.25.214V8130-2014
EP1097525	Italy	Granted	Transmit diversity method and system	ATIS.3GPP.25.214V8130-2014
3917375	Japan	Granted	Transmit diversity method and system	ATIS.3GPP.25.214V8130-2014
EP1097525	Netherlands	Granted	Transmit diversity method and system	ATIS.3GPP.25.214V8130-2014
323647	Norway	Granted	Transmit diversity method and system	ATIS.3GPP.25.214V8130-2014
EP1097525	Sweden	Granted	Transmit diversity method and system	ATIS.3GPP.25.214V8130-2014
6,751,227	United States	Granted	Signalling method	ATIS.3GPP.25.301V870-2012
EP1226733	Austria	Granted	A signalling method	ATIS.3GPP.25.301V870-2012
776109	Australia	Granted	Signalling method	ATIS.3GPP.25.301V870-2012
PI0014218-2	Brazil	Granted	Signalling method	ATIS.3GPP.25.301V870-2012
2389711	Canada	Granted	A Signalling method	ATIS.3GPP.25.301V870-2012
EP1226733	Switzerland	Granted	Signalling method	ATIS.3GPP.25.301V870-2012
ZL00815207.1	China P.R.	Granted	Signalling method	ATIS.3GPP.25.301V870-2012
EP1226733	Germany	Granted	Signalling method	ATIS.3GPP.25.301V870-2012
EP1226733	European Patent Convention	Granted	Signalling method	ATIS.3GPP.25.301V870-2012
EP1226733	Spain	Granted	A SIGNALLING METHOD AND APPARATUSES IN A CELLULAR NETWORK	ATIS.3GPP.25.301V870-2012

109320	Finland	Granted	Signalling method	ATIS.3GPP.25.301V870-2012
EP1226733	France	Granted	Signalling method	ATIS.3GPP.25.301V870-2012
EP1226733	Great Britain	Granted	A signalling method and apparatuses in a cellular network	ATIS.3GPP.25.301V870-2012
EP1226733	Italy	Granted	A Signalling method	ATIS.3GPP.25.301V870-2012
3502604	Japan	Granted	Signalling method	ATIS.3GPP.25.301V870-2012
10-0451298	Republic of Korea	Granted	Signalling method	ATIS.3GPP.25.301V870-2012
222863	Mexico	Granted	Signalling method	ATIS.3GPP.25.301V870-2012
EP1226733	Netherlands	Granted	Signalling method	ATIS.3GPP.25.301V870-2012
RE41,773	United States	Granted	Signalling method	ATIS.3GPP.25.301V870-2012
EP1226733	Sweden	Granted	Signalling method	ATIS.3GPP.25.301V870-2012
EP1226733	Turkey	Granted	Signalling method	ATIS.3GPP.25.301V870-2012
6,751,227	United States	Granted	Signalling method	ATIS.3GPP.25.331V8250-2016
EP1226733	Austria	Granted	A signalling method	ATIS.3GPP.25.331V8250-2016
776109	Australia	Granted	Signalling method	ATIS.3GPP.25.331V8250-2016
PI0014218-2	Brazil	Granted	Signalling method	ATIS.3GPP.25.331V8250-2016
2389711	Canada	Granted	A Signalling method	ATIS.3GPP.25.331V8250-2016
EP1226733	Switzerland	Granted	Signalling method	ATIS.3GPP.25.331V8250-2016
ZL00815207.1	China P.R.	Granted	Signalling method	ATIS.3GPP.25.331V8250-2016
EP1226733	Germany	Granted	Signalling method	ATIS.3GPP.25.331V8250-2016
EP1226733	European Patent Convention	Granted	Signalling method	ATIS.3GPP.25.331V8250-2016
EP1226733	Spain	Granted	A SIGNALLING METHOD AND APPARATUSES IN A CELLULAR NETWORK	ATIS.3GPP.25.331V8250-2016
109320	Finland	Granted	Signalling method	ATIS.3GPP.25.331V8250-2016
EP1226733	France	Granted	Signalling method	ATIS.3GPP.25.331V8250-2016
EP1226733	Great Britain	Granted	A signalling method and apparatuses in a cellular network	ATIS.3GPP.25.331V8250-2016
EP1226733	Italy	Granted	A Signalling method	ATIS.3GPP.25.331V8250-2016
3502604	Japan	Granted	Signalling method	ATIS.3GPP.25.331V8250-2016
10-0451298	Republic of Korea	Granted	Signalling method	ATIS.3GPP.25.331V8250-2016
222863	Mexico	Granted	Signalling method	ATIS.3GPP.25.331V8250-2016
EP1226733	Netherlands	Granted	Signalling method	ATIS.3GPP.25.331V8250-2016
RE41,773	United States	Granted	Signalling method	ATIS.3GPP.25.331V8250-2016
EP1226733	Sweden	Granted	Signalling method	ATIS.3GPP.25.331V8250-2016
EP1226733	Turkey	Granted	Signalling method	ATIS.3GPP.25.331V8250-2016
6,665,289	United States	Granted	Wireless telecommunications system employing dynamic multislot class	ATIS.3GPP.45.001V810-2010
773521	Australia	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.001V810-2010
ZL00808273.1	China P.R.	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.001V810-2010
ZL200610105909.9	China P.R.	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.001V810-2010
EP1180314	Germany	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.001V810-2010
EP2262299	Germany	Granted	Method for Cell Extension in a TDMA Cellular Telephone System	ATIS.3GPP.45.001V810-2010
EP1180314	European Patent Convention	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.001V810-2010
EP2262299	European Patent Convention	Granted	Method for Cell Extension in a TDMA Cellular Telephone System	ATIS.3GPP.45.001V810-2010

EP1180314	Spain	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.001V810-2010
EP2262299	Spain	Granted	Method for Cell Extension in a TDMA Cellular Telephone System	ATIS.3GPP.45.001V810-2010
EP1180314	France	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.001V810-2010
EP2262299	France	Granted	Method for Cell Extension in a TDMA Cellular Telephone System	ATIS.3GPP.45.001V810-2010
EP1180314	Great Britain	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.001V810-2010
EP2262299	Great Britain	Granted	Method for Cell Extension in a TDMA Cellular Telephone System	ATIS.3GPP.45.001V810-2010
HK1111850	Hong Kong	Granted	Improvements in wireless telecommunication systems	ATIS.3GPP.45.001V810-2010
209398	India	Granted	A method for operating a wireless TDMA communications system	ATIS.3GPP.45.001V810-2010
EP1180314	Italy	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.001V810-2010
EP2262299	Italy	Granted	Method for Cell Extension in a TDMA Cellular Telephone System	ATIS.3GPP.45.001V810-2010
EP2262299	Netherlands	Granted	Method for Cell Extension in a TDMA Cellular Telephone System	ATIS.3GPP.45.001V810-2010
2263414	Russian Federation	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.001V810-2010
6,665,289	United States	Granted	Wireless telecommunications system employing dynamic multislot class	ATIS.3GPP.45.002V810-2012
773521	Australia	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.002V810-2012
ZL00808273.1	China P.R.	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.002V810-2012
ZL200610105909.9	China P.R.	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.002V810-2012
EP1180314	Germany	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.002V810-2012
EP2262299	Germany	Granted	Method for Cell Extension in a TDMA Cellular Telephone System	ATIS.3GPP.45.002V810-2012
EP1180314	European Patent Convention	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.002V810-2012
EP2262299	European Patent Convention	Granted	Method for Cell Extension in a TDMA Cellular Telephone System	ATIS.3GPP.45.002V810-2012
EP1180314	Spain	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.002V810-2012
EP2262299	Spain	Granted	Method for Cell Extension in a TDMA Cellular Telephone System	ATIS.3GPP.45.002V810-2012
EP1180314	France	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.002V810-2012
EP2262299	France	Granted	Method for Cell Extension in a TDMA Cellular Telephone System	ATIS.3GPP.45.002V810-2012
EP1180314	Great Britain	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.002V810-2012
EP2262299	Great Britain	Granted	Method for Cell Extension in a TDMA Cellular Telephone System	ATIS.3GPP.45.002V810-2012
HK1111850	Hong Kong	Granted	Improvements in wireless telecommunication systems	ATIS.3GPP.45.002V810-2012
209398	India	Granted	A method for operating a wireless TDMA communications system	ATIS.3GPP.45.002V810-2012
EP1180314	Italy	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.002V810-2012
EP2262299	Italy	Granted	Method for Cell Extension in a TDMA Cellular Telephone System	ATIS.3GPP.45.002V810-2012
EP2262299	Netherlands	Granted	Method for Cell Extension in a TDMA Cellular Telephone System	ATIS.3GPP.45.002V810-2012
2263414	Russian Federation	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.002V810-2012
6,665,289	United States	Granted	Wireless telecommunications system employing dynamic multislot class	ATIS.3GPP.45.010V850-2010
773521	Australia	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.010V850-2010
ZL00808273.1	China P.R.	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.010V850-2010
ZL200610105909.9	China P.R.	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.010V850-2010
EP1180314	Germany	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.010V850-2010
EP2262299	Germany	Granted	Method for Cell Extension in a TDMA Cellular Telephone System	ATIS.3GPP.45.010V850-2010
EP1180314	European Patent Convention	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.010V850-2010
EP2262299	European Patent Convention	Granted	Method for Cell Extension in a TDMA Cellular Telephone System	ATIS.3GPP.45.010V850-2010

EP1180314	Spain	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.010V850-2010
EP2262299	Spain	Granted	Method for Cell Extension in a TDMA Cellular Telephone System	ATIS.3GPP.45.010V850-2010
EP1180314	France	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.010V850-2010
EP2262299	France	Granted	Method for Cell Extension in a TDMA Cellular Telephone System	ATIS.3GPP.45.010V850-2010
EP1180314	Great Britain	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.010V850-2010
EP2262299	Great Britain	Granted	Method for Cell Extension in a TDMA Cellular Telephone System	ATIS.3GPP.45.010V850-2010
HK1111850	Hong Kong	Granted	Improvements in wireless telecommunication systems	ATIS.3GPP.45.010V850-2010
209398	India	Granted	A method for operating a wireless TDMA communications system	ATIS.3GPP.45.010V850-2010
EP1180314	Italy	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.010V850-2010
EP2262299	Italy	Granted	Method for Cell Extension in a TDMA Cellular Telephone System	ATIS.3GPP.45.010V850-2010
EP2262299	Netherlands	Granted	Method for Cell Extension in a TDMA Cellular Telephone System	ATIS.3GPP.45.010V850-2010
2263414	Russian Federation	Granted	Method for cell extension in a TDMA cellular telephone system	ATIS.3GPP.45.010V850-2010
7,167,447	United States	Granted	Transporting QoS mapping information in a packet radio network	ATIS.3GPP.23.060V8170-2014
759622	Australia	Granted	Transporting QoS mapping information in a packet radio network	ATIS.3GPP.23.060V8170-2014
EP1151586	Belgium	Granted	Transporting QoS Mapping Information in a Packet Radio Network	ATIS.3GPP.23.060V8170-2014
8,155,005	United States	Granted	Transporting QoS mapping information in a packet radio network	ATIS.3GPP.23.060V8170-2014
2358194	Canada	Granted	Transporting QoS mapping information in a packet radio network	ATIS.3GPP.23.060V8170-2014
EP1151586	Switzerland	Granted	Transporting QoS mapping information in a packet radio network	ATIS.3GPP.23.060V8170-2014
ZL00802567.3	China P.R.	Granted	Transporting QoS mapping information in a packet radio network	ATIS.3GPP.23.060V8170-2014
EP1151586	Germany	Granted	Transporting QoS mapping information in a packet radio network	ATIS.3GPP.23.060V8170-2014
EP1151586	European Patent Convention	Granted	Transporting QoS Mapping Information in a Packet Radio Network	ATIS.3GPP.23.060V8170-2014
EP1151586	Spain	Granted	Transporting QoS Mapping Information in a Packet Radio Network	ATIS.3GPP.23.060V8170-2014
108601	Finland	Granted	Transporting QoS mapping information in a packet radio network	ATIS.3GPP.23.060V8170-2014
EP1151586	France	Granted	Transporting QoS Mapping Information in a Packet Radio Network	ATIS.3GPP.23.060V8170-2014
EP1151586	Great Britain	Granted	Transporting QoS Mapping Information in a Packet Radio Network	ATIS.3GPP.23.060V8170-2014
EP1151586	Italy	Granted	Transporting QoS Mapping Information in a Packet Radio Network	ATIS.3GPP.23.060V8170-2014
3625769	Japan	Granted	Transporting QoS Mapping Information in a Packet Radio Network	ATIS.3GPP.23.060V8170-2014
224997	Mexico	Granted	Transporting QoS mapping information in a packet radio network	ATIS.3GPP.23.060V8170-2014
6,978,142	United States	Granted	CELL PRIORITISING IN A CELLULAR RADIO SYSTEM	ATIS.3GPP.48.008V8100-2014
ZL98802945.6	China P.R.	Granted	Cell prioritising in a cellular radio	ATIS.3GPP.48.008V8100-2014
EP0862346	Germany	Granted	Cell prioritising in a cellular radio	ATIS.3GPP.48.008V8100-2014
EP0862346	European Patent Convention	Granted	Cell prioritising in a cellular radio	ATIS.3GPP.48.008V8100-2014
ES9950041	Spain	Granted	Cell prioritising in a cellular radio	ATIS.3GPP.48.008V8100-2014
EP0862346	France	Granted	Cell prioritising in a cellular radio system	ATIS.3GPP.48.008V8100-2014
EP0862346	Great Britain	Granted	Cell prioritising in a cellular radio system	ATIS.3GPP.48.008V8100-2014
EP0862346	Italy	Granted	Cell prioritising in a cellular radio system	ATIS.3GPP.48.008V8100-2014
524554	Sweden	Granted	Cell prioritising in a cellular radio	ATIS.3GPP.48.008V8100-2014
6,678,531	United States	Granted	METHOD AND APPARATUS FOR POWER CONTROL IN A MOBILE TELECOMMUNICATION SYSTEM	ATIS.3GPP.25.214V8130-2014
EP1072162	Belgium	Granted	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.214V8130-2014

PI9909387-1	Brazil	Pending	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.214V8130-2014
ZL99804689.2	China P.R.	Granted	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.214V8130-2014
EP1072162	Germany	Granted	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.214V8130-2014
EP1072162	European Patent Convention	Granted	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.214V8130-2014
EP1072162	Spain	Granted	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.214V8130-2014
114060	Finland	Granted	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.214V8130-2014
EP1072162	France	Granted	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.214V8130-2014
EP1072162	Great Britain	Granted	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.214V8130-2014
EP1072162	Italy	Granted	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.214V8130-2014
3871514	Japan	Granted	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.214V8130-2014
EP1072162	Netherlands	Granted	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.214V8130-2014
EP1072162	Sweden	Granted	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.214V8130-2014
6,678,531	United States	Granted	METHOD AND APPARATUS FOR POWER CONTROL IN A MOBILE TELECOMMUNICATION SYSTEM	ATIS.3GPP.25.433V8140-2016
EP1072162	Belgium	Granted	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.433V8140-2016
PI9909387-1	Brazil	Pending	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.433V8140-2016
ZL99804689.2	China P.R.	Granted	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.433V8140-2016
EP1072162	Germany	Granted	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.433V8140-2016
EP1072162	European Patent Convention	Granted	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.433V8140-2016
EP1072162	Spain	Granted	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.433V8140-2016
114060	Finland	Granted	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.433V8140-2016
EP1072162	France	Granted	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.433V8140-2016
EP1072162	Great Britain	Granted	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.433V8140-2016

EP1072162	Italy	Granted	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.433V8140-2016
3871514	Japan	Granted	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.433V8140-2016
EP1072162	Netherlands	Granted	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.433V8140-2016
EP1072162	Sweden	Granted	Method and apparatus for power control in a mobile telecommunication system	ATIS.3GPP.25.433V8140-2016
6,680,955	United States	Granted	Technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2169906	Austria	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2490398	Austria	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
2001243533	Australia	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP1262052	Belgium	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2169906	Belgium	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2490398	Belgium	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
PI0109097-6	Brazil	Granted	Method of transmission between the source and the receiver using the technique of compression of the field of heading in a package based on the timer, method of descompactacao of the field of heading, method pope to execute the transference between first and the second entities of net, and, comunicacao system	ATIS.3GPP.25.323V850-2010
2402438	Canada	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2169906	Switzerland	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2490398	Switzerland	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
ZL01806173.7	China P.R.	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
ZL200410097483.8	China P.R.	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP1262052	Germany	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2169906	Germany	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2490398	Germany	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2169907	Germany	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2169996	Germany	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2169906	Denmark	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2490398	Denmark	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP1262052	European Patent Convention	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2169906	European Patent Convention	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2490398	European Patent Convention	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2169907	European Patent Convention	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2169996	European Patent Convention	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP1262052	Spain	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2169906	Spain	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2490398	Spain	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP1262052	Finland	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010

EP2169906	Finland	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2490398	Finland	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP1262052	France	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2169906	France	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2490398	France	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP1262052	Great Britain	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2169906	Great Britain	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2490398	Great Britain	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2169907	Great Britain	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2169996	Great Britain	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2169906	Greece	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2490398	Greece	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP1262052	Ireland	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2169906	Ireland	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2490398	Ireland	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
221435	India	Granted	A system and method for transmitting data in a network by compression technique	ATIS.3GPP.25.323V850-2010
4003/CHENP/2008	India	Pending	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP1262052	Italy	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2169906	Italy	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2490398	Italy	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
4159287	Japan	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
4612028	Japan	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
10-0502313	Republic of Korea	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
232254	Mexico	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP1262052	Netherlands	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2169906	Netherlands	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2490398	Netherlands	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2169906	Portugal	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2490398	Portugal	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
2278478	Russian Federation	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP1262052	Sweden	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2169906	Sweden	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
EP2490398	Sweden	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.25.323V850-2010
6,611,507	United States	Granted	System and method for effecting information transmission and soft handoff between frequency division duplex and time division duplex communications systems	ATIS.3GPP.25.303V800-2008
PI0012870-8	Brazil	Pending	System and method for performing soft hand off between frequency division duplex and time division duplex communication systems	ATIS.3GPP.25.303V800-2008

2379415	Canada	Granted	System and method for effecting information transmission and soft handoff between frequency division duplex and time division duplex communication systems	ATIS.3GPP.25.303V800-2008
ZL00811001.8	China P.R.	Granted	System and method for performing soft hand off between frequency division duplex and time division duplex communication system	ATIS.3GPP.25.303V800-2008
EP1205084	Germany	Granted	System and method for performing soft hand off between frequency division duplex and time division duplex communication systems	ATIS.3GPP.25.303V800-2008
EP1205084	European Patent Convention	Granted	System and method for performing soft handoff between frequency division duplex and time division duplex communication systems	ATIS.3GPP.25.303V800-2008
EP1205084	Spain	Granted	System and method for performing soft hand off between frequency division duplex and time division duplex communication system	ATIS.3GPP.25.303V800-2008
EP1205084	France	Granted	System and method for performing soft hand off between frequency division duplex and time division duplex communication system	ATIS.3GPP.25.303V800-2008
EP1205084	Great Britain	Granted	System and method for performing soft handoff between frequency division duplex and time division duplex communication system	ATIS.3GPP.25.303V800-2008
EP1205084	Italy	Granted	System and method for performing soft hand off between frequency division duplex and time division duplex communication system	ATIS.3GPP.25.303V800-2008
4680457	Japan	Granted	System and method for performing soft hand off between frequency division duplex and time division duplex communication system	ATIS.3GPP.25.303V800-2008
4834173	Japan	Granted	System and method for performing soft hand off between frequency division duplex and time division duplex communication system	ATIS.3GPP.25.303V800-2008
5166574	Japan	Granted	System and method for performing soft hand off between frequency division duplex and time division duplex communication system	ATIS.3GPP.25.303V800-2008
4950326	Japan	Granted	System and method for performing soft hand off between frequency division duplex and time division duplex communication system	ATIS.3GPP.25.303V800-2008
5335942	Japan	Granted	System and method for performing soft hand off between frequency division duplex and time division duplex communication system	ATIS.3GPP.25.303V800-2008
4950327	Japan	Granted	System and method for performing soft hand off between frequency division duplex and time division duplex communication system	ATIS.3GPP.25.303V800-2008
5335941	Japan	Granted	System and method for effecting information transmission and soft handoff between frequency division duplex and time division duplex communications systems	ATIS.3GPP.25.303V800-2008
5336008	Japan	Granted	System and method for effecting information transmission and soft handoff between frequency division duplex and time division duplex communications systems	ATIS.3GPP.25.303V800-2008
10-0796818	Republic of Korea	Granted	System and method for performing soft handoff between frequency division duplex and time division duplex communication systems	ATIS.3GPP.25.303V800-2008
6,611,507	United States	Granted	System and method for effecting information transmission and soft handoff between frequency division duplex and time division duplex communications systems	ATIS.3GPP.25.322V890-2012
PI0012870-8	Brazil	Pending	System and method for performing soft hand off between frequency division duplex and time division duplex communication systems	ATIS.3GPP.25.322V890-2012

2379415	Canada	Granted	System and method for effecting information transmission and soft handoff between frequency division duplex and time division duplex communication systems	ATIS.3GPP.25.322V890-2012
ZL00811001.8	China P.R.	Granted	System and method for performing soft hand off between frequency division duplex and time division duplex communication system	ATIS.3GPP.25.322V890-2012
EP1205084	Germany	Granted	System and method for performing soft hand off between frequency division duplex and time division duplex communication systems	ATIS.3GPP.25.322V890-2012
EP1205084	European Patent Convention	Granted	System and method for performing soft handoff between frequency division duplex and time division duplex communication systems	ATIS.3GPP.25.322V890-2012
EP1205084	Spain	Granted	System and method for performing soft hand off between frequency division duplex and time division duplex communication system	ATIS.3GPP.25.322V890-2012
EP1205084	France	Granted	System and method for performing soft hand off between frequency division duplex and time division duplex communication system	ATIS.3GPP.25.322V890-2012
EP1205084	Great Britain	Granted	System and method for performing soft handoff between frequency division duplex and time division duplex communication system	ATIS.3GPP.25.322V890-2012
EP1205084	Italy	Granted	System and method for performing soft hand off between frequency division duplex and time division duplex communication system	ATIS.3GPP.25.322V890-2012
4680457	Japan	Granted	System and method for performing soft hand off between frequency division duplex and time division duplex communication system	ATIS.3GPP.25.322V890-2012
4834173	Japan	Granted	System and method for performing soft hand off between frequency division duplex and time division duplex communication system	ATIS.3GPP.25.322V890-2012
5166574	Japan	Granted	System and method for performing soft hand off between frequency division duplex and time division duplex communication system	ATIS.3GPP.25.322V890-2012
4950326	Japan	Granted	System and method for performing soft hand off between frequency division duplex and time division duplex communication system	ATIS.3GPP.25.322V890-2012
5335942	Japan	Granted	System and method for performing soft hand off between frequency division duplex and time division duplex communication system	ATIS.3GPP.25.322V890-2012
4950327	Japan	Granted	System and method for performing soft hand off between frequency division duplex and time division duplex communication system	ATIS.3GPP.25.322V890-2012
5335941	Japan	Granted	System and method for effecting information transmission and soft handoff between frequency division duplex and time division duplex communications systems	ATIS.3GPP.25.322V890-2012
5336008	Japan	Granted	System and method for effecting information transmission and soft handoff between frequency division duplex and time division duplex communications systems	ATIS.3GPP.25.322V890-2012
10-0796818	Republic of Korea	Granted	System and method for performing soft handoff between frequency division duplex and time division duplex communication systems	ATIS.3GPP.25.322V890-2012
6,859,651	United States	Granted	Method and system for re-authentication in IP multimedia core network system (IMS)	ATIS.3GPP.24.229V8270-2014
2480749	Canada	Granted	Method and system for re-authentication in IP multimedia core network system(IMS)	ATIS.3GPP.24.229V8270-2014
ZL03810667.1	China P.R.	Granted	Method and system for re-authentication in IP multimedia core network system(IMS)	ATIS.3GPP.24.229V8270-2014

03745349.5	European Patent Convention	Pending	Method and system for re-authentication in IP multimedia core network system (IMS)	ATIS.3GPP.24.229V8270-2014
4191613	Japan	Granted	Method and system for re-authentication in IP multimedia core network system (IMS)	ATIS.3GPP.24.229V8270-2014
10-0583845	Republic of Korea	Granted	Method and system for re-authentication in IP multimedia core network system (IMS)	ATIS.3GPP.24.229V8270-2014
246287	Mexico	Granted	Method and system for re-authentication in IP multimedia core network system (IMS)	ATIS.3GPP.24.229V8270-2014
2286018	Russian Federation	Granted	Method and system for re-authentication in IP multimedia core network system (IMS)	ATIS.3GPP.24.229V8270-2014
6,957,063	United States	Granted	Services on demand in mobile communications system	ATIS.3GPP.44.018V8170-2014
7,266,366	United States	Granted	Services on demand in mobile communications system	ATIS.3GPP.44.018V8170-2014
ZL99805223.X	China P.R.	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.018V8170-2014
7,873,354	United States	Granted	Services on demand in mobile communications system	ATIS.3GPP.44.018V8170-2014
EP1064802	Germany	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.018V8170-2014
EP2154913	Germany	Granted	Services on demand in mobile communications system	ATIS.3GPP.44.018V8170-2014
EP2154914	Germany	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.018V8170-2014
EP1064802	European Patent Convention	Granted	Services on demand in mobile communications system	ATIS.3GPP.44.018V8170-2014
EP2154913	European Patent Convention	Granted	A mobile station for receiving services on demand in mobile communications system	ATIS.3GPP.44.018V8170-2014
EP2154914	European Patent Convention	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.018V8170-2014
EP1064802	Spain	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.018V8170-2014
EP2154913	Spain	Granted	Services on demand in mobile communications system	ATIS.3GPP.44.018V8170-2014
EP2154914	Spain	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.018V8170-2014
EP1064802	France	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.018V8170-2014
EP2154913	France	Granted	Services on demand in mobile communications system	ATIS.3GPP.44.018V8170-2014
EP2154914	France	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.018V8170-2014
EP1064802	Great Britain	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.018V8170-2014
EP2154913	Great Britain	Granted	Services on demand in mobile communications system	ATIS.3GPP.44.018V8170-2014
EP2154914	Great Britain	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.018V8170-2014
EP1064802	Italy	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.018V8170-2014
EP2154913	Italy	Granted	Services on demand in mobile communications system	ATIS.3GPP.44.018V8170-2014
EP2154914	Italy	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.018V8170-2014
2015-071675	Japan	Pending	Services on demand in mobile communications system	ATIS.3GPP.44.018V8170-2014
EP2154913	Netherlands	Granted	Services on demand in mobile communications system	ATIS.3GPP.44.018V8170-2014
EP2154914	Netherlands	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.018V8170-2014
6,957,063	United States	Granted	Services on demand in mobile communications system	ATIS.3GPP.44.060V8170-2014
7,266,366	United States	Granted	Services on demand in mobile communications system	ATIS.3GPP.44.060V8170-2014
ZL99805223.X	China P.R.	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.060V8170-2014
7,873,354	United States	Granted	Services on demand in mobile communications system	ATIS.3GPP.44.060V8170-2014
EP1064802	Germany	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.060V8170-2014

EP2154913	Germany	Granted	Services on demand in mobile communications system	ATIS.3GPP.44.060V8170-2014
EP2154914	Germany	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.060V8170-2014
EP1064802	European Patent Convention	Granted	Services on demand in mobile communications system	ATIS.3GPP.44.060V8170-2014
EP2154913	European Patent Convention	Granted	A mobile station for receiving services on demand in mobile communications system	ATIS.3GPP.44.060V8170-2014
EP2154914	European Patent Convention	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.060V8170-2014
EP1064802	Spain	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.060V8170-2014
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EP2154914	Spain	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.060V8170-2014
EP1064802	France	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.060V8170-2014
EP2154913	France	Granted	Services on demand in mobile communications system	ATIS.3GPP.44.060V8170-2014
EP2154914	France	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.060V8170-2014
EP1064802	Great Britain	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.060V8170-2014
EP2154913	Great Britain	Granted	Services on demand in mobile communications system	ATIS.3GPP.44.060V8170-2014
EP2154914	Great Britain	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.060V8170-2014
EP1064802	Italy	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.060V8170-2014
EP2154913	Italy	Granted	Services on demand in mobile communications system	ATIS.3GPP.44.060V8170-2014
EP2154914	Italy	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.060V8170-2014
2015-071675	Japan	Pending	Services on demand in mobile communications system	ATIS.3GPP.44.060V8170-2014
EP2154913	Netherlands	Granted	Services on demand in mobile communications system	ATIS.3GPP.44.060V8170-2014
EP2154914	Netherlands	Granted	Services on demand in mobile communication system	ATIS.3GPP.44.060V8170-2014
6,807,421	United States	Granted	Method for controlling connections to a mobile station	ATIS.3GPP.25.212V880-2016
EP1068757	Belgium	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.25.212V880-2016
EP1209931	Belgium	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.25.212V880-2016
PI9909307-3	Brazil	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.25.212V880-2016
ZL99805061.X	China P.R.	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.25.212V880-2016
ZL03101288.4	China P.R.	Granted	Method for establishing mobile connection in telecommunications system	ATIS.3GPP.25.212V880-2016
ZL200410098324.X	China P.R.	Granted	Cellular telecommunication system	ATIS.3GPP.25.212V880-2016
7,684,361	United States	Granted	Method for controlling connections to a mobile station	ATIS.3GPP.25.212V880-2016
EP1068757	Germany	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.25.212V880-2016
EP1209931	Germany	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.25.212V880-2016
EP1068757	European Patent Convention	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.25.212V880-2016
EP1209931	European Patent Convention	Granted	A method for setting up a connection of a mobile station in a cellular telecommunication system	ATIS.3GPP.25.212V880-2016
EP1068757	Spain	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.25.212V880-2016
EP1209931	Spain	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.25.212V880-2016
108772	Finland	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.25.212V880-2016
109168	Finland	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.25.212V880-2016
EP1068757	France	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.25.212V880-2016
EP1209931	France	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.25.212V880-2016
EP1068757	Great Britain	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.25.212V880-2016

EP1209931	Great Britain	Granted	A method for setting up a connection of a mobile station in a cellular telecommunication system	ATIS.3GPP.25.212V880-2016
EP1068757	Italy	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.25.212V880-2016
EP1209931	Italy	Granted	A method for setting up a connection of a mobile station in a cellular telecommunication system	ATIS.3GPP.25.212V880-2016
3515073	Japan	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.25.212V880-2016
4067871	Japan	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.25.212V880-2016
EP1068757	Netherlands	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.25.212V880-2016
EP1209931	Netherlands	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.25.212V880-2016
EP1068757	Sweden	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.25.212V880-2016
EP1209931	Sweden	Granted	A method for setting up a connection of a mobile station in a cellular telecommunication system	ATIS.3GPP.25.212V880-2016
7,072,663	United States	Granted	Radio resource management	ATIS.3GPP.25.413V880-2012
PI0114497-9	Brazil	Granted	Radio resource management	ATIS.3GPP.25.413V880-2012
2423322	Canada	Granted	Radio resource management	ATIS.3GPP.25.413V880-2012
ZL01817112.5	China P.R.	Granted	Radio resource management	ATIS.3GPP.25.413V880-2012
EP1325660	Germany	Granted	Radio resource management	ATIS.3GPP.25.413V880-2012
EP1325660	European Patent Convention	Granted	Radio resource management	ATIS.3GPP.25.413V880-2012
EP1325660	France	Granted	Radio resource management	ATIS.3GPP.25.413V880-2012
EP1325660	Great Britain	Granted	Radio resource management	ATIS.3GPP.25.413V880-2012
EP1325660	Italy	Granted	Radio resource management	ATIS.3GPP.25.413V880-2012
4619621	Japan	Granted	Radio resource management	ATIS.3GPP.25.413V880-2012
4671995	Japan	Granted	Radio resource management	ATIS.3GPP.25.413V880-2012
2277762	Russian Federation	Granted	Radio resource management	ATIS.3GPP.25.413V880-2012
7,072,663	United States	Granted	Radio resource management	ATIS.3GPP.48.008V8100-2014
PI0114497-9	Brazil	Granted	Radio resource management	ATIS.3GPP.48.008V8100-2014
2423322	Canada	Granted	Radio resource management	ATIS.3GPP.48.008V8100-2014
ZL01817112.5	China P.R.	Granted	Radio resource management	ATIS.3GPP.48.008V8100-2014
EP1325660	Germany	Granted	Radio resource management	ATIS.3GPP.48.008V8100-2014
EP1325660	European Patent Convention	Granted	Radio resource management	ATIS.3GPP.48.008V8100-2014
EP1325660	France	Granted	Radio resource management	ATIS.3GPP.48.008V8100-2014
EP1325660	Great Britain	Granted	Radio resource management	ATIS.3GPP.48.008V8100-2014
EP1325660	Italy	Granted	Radio resource management	ATIS.3GPP.48.008V8100-2014
4619621	Japan	Granted	Radio resource management	ATIS.3GPP.48.008V8100-2014
4671995	Japan	Granted	Radio resource management	ATIS.3GPP.48.008V8100-2014
2277762	Russian Federation	Granted	Radio resource management	ATIS.3GPP.48.008V8100-2014
6,975,615	United States	Granted	Data transmission method and mobile telephone system	ATIS.3GPP.25.221V8110-2014
2003204581	Australia	Granted	Data transmission method and mobile telephone system	ATIS.3GPP.25.221V8110-2014
EP1012995	Belgium	Granted	Data transmission method and mobile telephone system	ATIS.3GPP.25.221V8110-2014
7,139,260	United States	Granted	Data transmission method and mobile telephone system	ATIS.3GPP.25.221V8110-2014
ZL99801086.3	China P.R.	Granted	Data transmission method and mobile telephone system	ATIS.3GPP.25.221V8110-2014

EP1012995	Germany	Granted	Data transmission method and mobile telephone system	ATIS.3GPP.25.221V8110-2014
EP1012995	European Patent Convention	Granted	Data transmission method and mobile telephone system	ATIS.3GPP.25.221V8110-2014
EP1012995	Spain	Granted	Data transmission method and mobile telephone system	ATIS.3GPP.25.221V8110-2014
EP1012995	France	Granted	Data transmission method and mobile telephone system	ATIS.3GPP.25.221V8110-2014
EP1012995	Great Britain	Granted	Data transmission method and mobile telephone system	ATIS.3GPP.25.221V8110-2014
EP1012995	Italy	Granted	Data transmission method and mobile telephone system	ATIS.3GPP.25.221V8110-2014
4087316	Japan	Granted	Data transmission method and mobile telephone system	ATIS.3GPP.25.221V8110-2014
EP1012995	Netherlands	Granted	Data transmission method and mobile telephone system	ATIS.3GPP.25.221V8110-2014
320212	Norway	Granted	Data transmission method and mobile telephone system	ATIS.3GPP.25.221V8110-2014
EP1012995	Sweden	Granted	Data transmission method and mobile telephone system	ATIS.3GPP.25.221V8110-2014
6,771,964	United States	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.25.331V8250-2016
PI0014248-4	Brazil	Pending	Handover between wireless telecommunication networks/systems	ATIS.3GPP.25.331V8250-2016
2385656	Canada	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.25.331V8250-2016
ZL00814585.7	China P.R.	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.25.331V8250-2016
EP1214855	Germany	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.25.331V8250-2016
EP1214855	European Patent Convention	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.25.331V8250-2016
EP1214855	France	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.25.331V8250-2016
EP1214855	Great Britain	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.25.331V8250-2016
EP1214855	Italy	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.25.331V8250-2016
3694265	Japan	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.25.331V8250-2016
10-0728097	Republic of Korea	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.25.331V8250-2016
EP1214855	Netherlands	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.25.331V8250-2016
6,771,964	United States	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.25.413V880-2012
PI0014248-4	Brazil	Pending	Handover between wireless telecommunication networks/systems	ATIS.3GPP.25.413V880-2012
2385656	Canada	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.25.413V880-2012
ZL00814585.7	China P.R.	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.25.413V880-2012
EP1214855	Germany	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.25.413V880-2012
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EP1214855	Great Britain	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.25.413V880-2012
EP1214855	Italy	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.25.413V880-2012
3694265	Japan	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.25.413V880-2012
10-0728097	Republic of Korea	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.25.413V880-2012
EP1214855	Netherlands	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.25.413V880-2012
6,771,964	United States	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.43.318V840-2010
PI0014248-4	Brazil	Pending	Handover between wireless telecommunication networks/systems	ATIS.3GPP.43.318V840-2010
2385656	Canada	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.43.318V840-2010
ZL00814585.7	China P.R.	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.43.318V840-2010
EP1214855	Germany	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.43.318V840-2010
EP1214855	European Patent Convention	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.43.318V840-2010

EP1214855	France	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.43.318V840-2010
EP1214855	Great Britain	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.43.318V840-2010
EP1214855	Italy	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.43.318V840-2010
3694265	Japan	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.43.318V840-2010
10-0728097	Republic of Korea	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.43.318V840-2010
EP1214855	Netherlands	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.43.318V840-2010
6,771,964	United States	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.44.018V8170-2014
PI0014248-4	Brazil	Pending	Handover between wireless telecommunication networks/systems	ATIS.3GPP.44.018V8170-2014
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EP1214855	Germany	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.44.018V8170-2014
EP1214855	European Patent Convention	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.44.018V8170-2014
EP1214855	France	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.44.018V8170-2014
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EP1214855	Italy	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.44.018V8170-2014
3694265	Japan	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.44.018V8170-2014
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EP1214855	Netherlands	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.44.018V8170-2014
6,771,964	United States	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.48.008V8100-2014
PI0014248-4	Brazil	Pending	Handover between wireless telecommunication networks/systems	ATIS.3GPP.48.008V8100-2014
2385656	Canada	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.48.008V8100-2014
ZL00814585.7	China P.R.	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.48.008V8100-2014
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EP1214855	European Patent Convention	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.48.008V8100-2014
EP1214855	France	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.48.008V8100-2014
EP1214855	Great Britain	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.48.008V8100-2014
EP1214855	Italy	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.48.008V8100-2014
3694265	Japan	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.48.008V8100-2014
10-0728097	Republic of Korea	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.48.008V8100-2014
EP1214855	Netherlands	Granted	Handover between wireless telecommunication networks/systems	ATIS.3GPP.48.008V8100-2014
7,246,242	United States	Granted	Integrity protection method for radio network signaling	ATIS.3GPP.33.102V1020-2016
PI0010408-6	Brazil	Granted	Integrity protection method for radio network signaling	ATIS.3GPP.33.102V1020-2016
2371365	Canada	Granted	Integrity protection method for radio network signaling	ATIS.3GPP.33.102V1020-2016
ZL00807372.4	China P.R.	Granted	Integrity protection method for radio network signaling	ATIS.3GPP.33.102V1020-2016
EP1180315	Germany	Granted	Integrity protection method for radio network signaling	ATIS.3GPP.33.102V1020-2016
EP1180315	European Patent Convention	Granted	Integrity protection method for radio network signaling	ATIS.3GPP.33.102V1020-2016
EP1180315	Spain	Granted	Integrity protection method for radio network signaling	ATIS.3GPP.33.102V1020-2016
EP1180315	France	Granted	Integrity protection method for radio network signaling	ATIS.3GPP.33.102V1020-2016
EP1180315	Great Britain	Granted	Integrity protection method for radio network signaling	ATIS.3GPP.33.102V1020-2016
226997	India	Granted	A method for integrity checking of messages	ATIS.3GPP.33.102V1020-2016

EP1180315	Italy	Granted	Integrity protection method for radio network signaling	ATIS.3GPP.33.102V1020-2016
8,325,638	United States	Granted	Performing packet flow optimization with policy and charging control	ATIS.3GPP.48.018V8110-2014
8,582,480	United States	Granted	Performing packet flow optimization with policy and charging control	ATIS.3GPP.48.018V8110-2014
ZL200980149388.9	China P.R.	Granted	Performing packet flow optimization with policy and charging control	ATIS.3GPP.48.018V8110-2014
EP2356835	Germany	Granted	Performing packet flow optimization with policy and charging control	ATIS.3GPP.48.018V8110-2014
EP2356835	European Patent Convention	Granted	Performing packet flow optimization with policy and charging control	ATIS.3GPP.48.018V8110-2014
EP2356835	France	Granted	Performing packet flow optimization with policy and charging control	ATIS.3GPP.48.018V8110-2014
EP2356835	Great Britain	Granted	Performing packet flow optimization with policy and charging control	ATIS.3GPP.48.018V8110-2014
3457/CHENP/2011	India	Pending	Performing packet flow optimization with policy and charging control	ATIS.3GPP.48.018V8110-2014
5611973	Japan	Granted	Performing packet flow optimization with policy and charging control	ATIS.3GPP.48.018V8110-2014
5788545	Japan	Granted	Performing packet flow optimization with policy and charging control	ATIS.3GPP.48.018V8110-2014
10-1287517	Republic of Korea	Granted	Performing packet flow optimization with policy and charging control	ATIS.3GPP.48.018V8110-2014
I411329	Taiwan	Granted	Performing packet flow optimization with policy and charging control	ATIS.3GPP.48.018V8110-2014
8,520,632	United States	Granted	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.25.331V8250-2016
ZL200980152054.7	China P.R.	Granted	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2382819	Germany	Granted	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2382819	European Patent Convention	Granted	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2382819	Spain	Granted	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2382819	Finland	Granted	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2382819	France	Granted	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2382819	Great Britain	Granted	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2382819	Hungary	Granted	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.25.331V8250-2016
3831/CHENP/2011	India	Pending	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2382819	Italy	Granted	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.25.331V8250-2016
5551182	Japan	Granted	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.25.331V8250-2016
5819464	Japan	Granted	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.25.331V8250-2016
10-1360930	Republic of Korea	Granted	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.25.331V8250-2016
10-1360931	Republic of Korea	Granted	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.25.331V8250-2016

10-1360924	Republic of Korea	Granted	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2382819	Netherlands	Granted	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2382819	Turkey	Granted	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.25.331V8250-2016
I498022	Taiwan	Granted	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.25.331V8250-2016
8,942,204	United States	Granted	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.25.413V880-2012
201610137845.4	China P.R.	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.25.413V880-2012
09799466.9	European Patent Convention	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.25.413V880-2012
4366/CHENP/2011	India	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.25.413V880-2012
5745118	Japan	Granted	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.25.413V880-2012
8,942,204	United States	Granted	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.25.467V860-2012
201610137845.4	China P.R.	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.25.467V860-2012
09799466.9	European Patent Convention	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.25.467V860-2012
4366/CHENP/2011	India	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.25.467V860-2012
5745118	Japan	Granted	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.25.467V860-2012
8,942,204	United States	Granted	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.44.018V8170-2014
201610137845.4	China P.R.	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.44.018V8170-2014
09799466.9	European Patent Convention	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.44.018V8170-2014
4366/CHENP/2011	India	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.44.018V8170-2014
5745118	Japan	Granted	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.44.018V8170-2014
8,942,204	United States	Granted	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.44.060V8170-2014
201610137845.4	China P.R.	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.44.060V8170-2014
09799466.9	European Patent Convention	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.44.060V8170-2014

4366/CHENP/2011	India	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.44.060V8170-2014
5745118	Japan	Granted	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.44.060V8170-2014
12/642,292	United States	Pending	Handover control based on closed subscriber group subscription information	ATIS.3GPP.25.467V860-2012
200980152046.2	China P.R.	Pending	Handover control based on closed subscriber group subscription information	ATIS.3GPP.25.467V860-2012
09799467.7	European Patent Convention	Pending	Handover control based on closed subscriber group subscription information	ATIS.3GPP.25.467V860-2012
4346/CHENP/2011	India	Pending	Handover control based on closed subscriber group subscription information	ATIS.3GPP.25.467V860-2012
2013-021291	Japan	Pending	Handover control based on closed subscriber group subscription information	ATIS.3GPP.25.467V860-2012
10-1290188	Republic of Korea	Granted	Handover control based on closed subscriber group subscription information	ATIS.3GPP.25.467V860-2012
I399106	Taiwan	Granted	Handover control based on closed subscriber group subscription information	ATIS.3GPP.25.467V860-2012
12/642,292	United States	Pending	Handover control based on closed subscriber group subscription information	ATIS.3GPP.25.469V850-2010
200980152046.2	China P.R.	Pending	Handover control based on closed subscriber group subscription information	ATIS.3GPP.25.469V850-2010
09799467.7	European Patent Convention	Pending	Handover control based on closed subscriber group subscription information	ATIS.3GPP.25.469V850-2010
4346/CHENP/2011	India	Pending	Handover control based on closed subscriber group subscription information	ATIS.3GPP.25.469V850-2010
2013-021291	Japan	Pending	Handover control based on closed subscriber group subscription information	ATIS.3GPP.25.469V850-2010
10-1290188	Republic of Korea	Granted	Handover control based on closed subscriber group subscription information	ATIS.3GPP.25.469V850-2010
I399106	Taiwan	Granted	Handover control based on closed subscriber group subscription information	ATIS.3GPP.25.469V850-2010
8,565,170	United States	Granted	Method and apparatus for scheduling data transmission on multiple carriers	ATIS.3GPP.25.321V8170-2014
PI1007144-0	Brazil	Pending	Method and apparatus for scheduling data transmission on multiple carriers	ATIS.3GPP.25.321V8170-2014
ZL201080004466.9	China P.R.	Granted	Method and apparatus for scheduling data transmission on multiple carriers	ATIS.3GPP.25.321V8170-2014
EP2387858	Germany	Granted	Method and apparatus for scheduling data transmission on multiple carriers	ATIS.3GPP.25.321V8170-2014
EP2387858	European Patent Convention	Granted	Method and apparatus for scheduling data transmission on multiple carriers	ATIS.3GPP.25.321V8170-2014
EP2387858	Spain	Granted	Method and apparatus for scheduling data transmission on multiple carriers	ATIS.3GPP.25.321V8170-2014
EP2387858	France	Granted	Method and apparatus for scheduling data transmission on multiple carriers	ATIS.3GPP.25.321V8170-2014
EP2387858	Great Britain	Granted	Method and apparatus for scheduling data transmission on multiple carriers	ATIS.3GPP.25.321V8170-2014
4174/CHENP/2011	India	Pending	Method and apparatus for scheduling data transmission on multiple carriers	ATIS.3GPP.25.321V8170-2014
EP2387858	Italy	Granted	Method and apparatus for scheduling data transmission on multiple carriers	ATIS.3GPP.25.321V8170-2014
5313365	Japan	Granted	Method and apparatus for scheduling data transmission on multiple carriers	ATIS.3GPP.25.321V8170-2014
10-1267364	Republic of Korea	Granted	Method and apparatus for scheduling data transmission on multiple carriers	ATIS.3GPP.25.321V8170-2014
I411340	Taiwan	Granted	Method and apparatus for scheduling request signalling in wireless communications	ATIS.3GPP.25.321V8170-2014
8,082,303	United States	Granted	Methods and apparatus for combined peer to peer and wide area network based discovery	ATIS.3GPP.24.334V1211-2016
ZL201080015917.9	China P.R.	Granted	Methods and apparatus for combined peer to peer and wide area network based discovery	ATIS.3GPP.24.334V1211-2016
10762107.0	European Patent Convention	Pending	Methods and apparatus for combined peer to peer and wide area network based discovery	ATIS.3GPP.24.334V1211-2016
6567/CHENP/2011	India	Pending	Methods and apparatus for combined peer to peer and wide area network based discovery	ATIS.3GPP.24.334V1211-2016
5507664	Japan	Granted	Methods and apparatus for combined peer to peer and wide area network based discovery	ATIS.3GPP.24.334V1211-2016

10-1452238	Republic of Korea	Granted	Methods and apparatus for combined peer to peer and wide area network based discovery	ATIS.3GPP.24.334V1211-2016
9,148,786	United States	Granted	Inclusion/exclusion messaging scheme for indicating whether a network entity performs access control	ATIS.3GPP.25.413V880-2012
ZL201080006199.9	China P.R.	Granted	Inclusion/exclusion messaging scheme for indicating whether a network entity performs access control	ATIS.3GPP.25.413V880-2012
4852/CHENP/2011	India	Pending	Inclusion/exclusion messaging scheme for indicating whether a network entity performs access control	ATIS.3GPP.25.413V880-2012
8,547,860	United States	Granted	Uplink carrier allocation	ATIS.3GPP.25.331V8250-2016
PI1008114-3	Brazil	Pending	Multiple uplink carrier allocation in wireless communication networks	ATIS.3GPP.25.331V8250-2016
ZL201080006556.1	China P.R.	Granted	Multiple uplink carrier allocation in wireless communication networks	ATIS.3GPP.25.331V8250-2016
10706409.9	European Patent Convention	Pending	Multiple uplink carrier allocation in wireless communication networks	ATIS.3GPP.25.331V8250-2016
5130/CHENP/2011	India	Pending	Multiple uplink carrier allocation in wireless communication networks	ATIS.3GPP.25.331V8250-2016
5274675	Japan	Granted	Multiple uplink carrier allocation in wireless communication networks	ATIS.3GPP.25.331V8250-2016
10-1253531	Republic of Korea	Granted	Multiple uplink carrier allocation in wireless communication networks	ATIS.3GPP.25.331V8250-2016
8,521,207	United States	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
791/2011	United Arab Emirates	Pending	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
EP2394473	Austria	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
EP2394473	Belgium	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
PI1008195-0	Brazil	Pending	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
2750204	Canada	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
EP2394473	Switzerland	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
ZL201080006269.0	China P.R.	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
HK1161490	Hong Kong	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
EP2394473	Germany	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
EP2394473	Denmark	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
EP2394473	European Patent Convention	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
EP2394473	Spain	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
EP2394473	Finland	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
EP2394473	France	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
EP2394473	Great Britain	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
EP2394473	Greece	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
EP2394473	Hungary	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
IDP000035889	Indonesia	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
EP2394473	Ireland	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
5132/CHENP/2011	India	Pending	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
EP2394473	Italy	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
5726762	Japan	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
10-1284107	Republic of Korea	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
MY-157053-A	Malaysia	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
EP2394473	Netherlands	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016

EP2394473	Norway	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
1-2011-501402	Philippines	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
EP2394473	Poland	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
EP2394473	Portugal	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
EP2394473	Romania	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
2479162	Russian Federation	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
EP2394473	Sweden	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
2011/06204	South Africa	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	ATIS.3GPP.36.101V8260-2016
8,842,613	United States	Granted	POWER ALLOCATION IN MULTI-CARRIER ENHANCED UPLINK	ATIS.3GPP.25.321V8170-2014
EP2394471	Belgium	Granted	Power allocation in multi-carrier enhanced uplink	ATIS.3GPP.25.321V8170-2014
EP2394471	Switzerland	Granted	Power allocation in multi-carrier enhanced uplink	ATIS.3GPP.25.321V8170-2014
ZL201080006892.6	China P.R.	Granted	Power allocation in multi-carrier enhanced uplink	ATIS.3GPP.25.321V8170-2014
EP2394471	Germany	Granted	Power allocation in multi-carrier enhanced uplink	ATIS.3GPP.25.321V8170-2014
EP2394471	European Patent Convention	Granted	Power allocation in multi-carrier enhanced uplink	ATIS.3GPP.25.321V8170-2014
EP2394471	Spain	Granted	Power allocation in multi-carrier enhanced uplink	ATIS.3GPP.25.321V8170-2014
EP2394471	France	Granted	Power allocation in multi-carrier enhanced uplink	ATIS.3GPP.25.321V8170-2014
EP2394471	Great Britain	Granted	Power allocation in multi-carrier enhanced uplink	ATIS.3GPP.25.321V8170-2014
EP2394471	Hungary	Granted	Power allocation in multi-carrier enhanced uplink	ATIS.3GPP.25.321V8170-2014
EP2394471	Ireland	Granted	Power allocation in multi-carrier enhanced uplink	ATIS.3GPP.25.321V8170-2014
5134/CHENP/2011	India	Pending	Power allocation in multi-carrier enhanced uplink	ATIS.3GPP.25.321V8170-2014
EP2394471	Italy	Granted	Power allocation in multi-carrier enhanced uplink	ATIS.3GPP.25.321V8170-2014
5689077	Japan	Granted	Power allocation in multi-carrier enhanced uplink	ATIS.3GPP.25.321V8170-2014
10-1284103	Republic of Korea	Granted	Power allocation in multi-carrier enhanced uplink	ATIS.3GPP.25.321V8170-2014
EP2394471	Netherlands	Granted	Power allocation in multi-carrier enhanced uplink	ATIS.3GPP.25.321V8170-2014
8,457,056	United States	Granted	NON-SCHEDULED GRANTS IN MULTI-CARRIER ENHANCED UPLINK	ATIS.3GPP.25.321V8170-2014
ZL201080006891.1	China P.R.	Granted	Non-scheduled grants in multi-carrier enhanced uplink	ATIS.3GPP.25.321V8170-2014
10706408.1	European Patent Convention	Pending	Non-scheduled grants in multi-carrier enhanced uplink	ATIS.3GPP.25.321V8170-2014
5135/CHENP/2011	India	Pending	Non-scheduled grants in multi-carrier enhanced uplink	ATIS.3GPP.25.321V8170-2014
5526151	Japan	Granted	Non-scheduled grants in multi-carrier enhanced uplink	ATIS.3GPP.25.321V8170-2014
10-1284094	Republic of Korea	Granted	Non-scheduled grants in multi-carrier enhanced uplink	ATIS.3GPP.25.321V8170-2014
9,001,777	United States	Granted	Scheduling information for wireless communications	ATIS.3GPP.25.321V8170-2014
PI1009386-9	Brazil	Pending	Scheduling information for wireless communications	ATIS.3GPP.25.321V8170-2014
ZL201080012475.2	China P.R.	Granted	Scheduling information for wireless communications	ATIS.3GPP.25.321V8170-2014
10727193.4	European Patent Convention	Pending	Scheduling information for wireless communications	ATIS.3GPP.25.321V8170-2014
6357/CHENP/2011	India	Pending	Scheduling information for wireless communications	ATIS.3GPP.25.321V8170-2014
5330592	Japan	Granted	Scheduling information for wireless communications	ATIS.3GPP.25.321V8170-2014
10-1312486	Republic of Korea	Granted	Scheduling information for wireless communications	ATIS.3GPP.25.321V8170-2014
8,472,965	United States	Granted	Mobility in multi-carrier high speed packet access	ATIS.3GPP.25.331V8250-2016
ZL201080012057.3	China P.R.	Granted	Mobility in multi-carrier high speed packet access	ATIS.3GPP.25.331V8250-2016
10711302.9	European Patent Convention	Pending	Mobility in multi-carrier high speed packet access	ATIS.3GPP.25.331V8250-2016

6355/CHENP/2011	India	Pending	Mobility in multi-carrier high speed packet access	ATIS.3GPP.25.331V8250-2016
5330593	Japan	Granted	Mobility in multi-carrier high speed packet access	ATIS.3GPP.25.331V8250-2016
10-1315914	Republic of Korea	Granted	Mobility in multi-carrier high speed packet access	ATIS.3GPP.25.331V8250-2016
ZL201080012444.7	China P.R.	Granted	Layer two segmentation techniques for high data rate transmissions	ATIS.3GPP.25.321V8170-2014
10709654.7	European Patent Convention	Pending	Layer two segmentation techniques for high data rate transmissions	ATIS.3GPP.25.321V8170-2014
6358/CHENP/2011	India	Pending	Layer two segmentation techniques for high data rate transmissions	ATIS.3GPP.25.321V8170-2014
5318277	Japan	Granted	Layer two segmentation techniques for high data rate transmissions	ATIS.3GPP.25.321V8170-2014
10-1339129	Republic of Korea	Granted	Layer two segmentation techniques for high data rate transmissions	ATIS.3GPP.25.321V8170-2014
8,514,779	United States	Granted	Radio link control protocol data unit size selection in dual carrier HSUPA	ATIS.3GPP.25.322V890-2012
PI1013776-9	Brazil	Pending	Radio link control protocol data unit size selection in dual carrier HSUPA	ATIS.3GPP.25.322V890-2012
ZL201080016307.0	China P.R.	Granted	Radio link control protocol data unit size selection in dual carrier HSUPA	ATIS.3GPP.25.322V890-2012
10715039.3	European Patent Convention	Pending	Radio link control protocol data unit size selection in dual carrier HSUPA	ATIS.3GPP.25.322V890-2012
7176/CHENP/2011	India	Pending	Radio link control protocol data unit size selection in dual carrier HSUPA	ATIS.3GPP.25.322V890-2012
2012-506115	Japan	Pending	Radio link control protocol data unit size selection in dual carrier HSUPA	ATIS.3GPP.25.322V890-2012
5694485	Japan	Granted	Radio link control protocol data unit size selection in dual carrier HSUPA	ATIS.3GPP.25.322V890-2012
10-1354565	Republic of Korea	Granted	Radio link control protocol data unit size selection in dual carrier HSUPA	ATIS.3GPP.25.322V890-2012
I415505	Taiwan	Granted	Radio link control protocol data unit size selection in dual carrier HSUPA	ATIS.3GPP.25.322V890-2012
8,599,771	United States	Granted	Control of radio links in a multiple carrier system	ATIS.3GPP.25.331V8250-2016
ZL201080016584.1	China P.R.	Granted	Control of radio links in a multiple carrier system	ATIS.3GPP.25.331V8250-2016
10715052.6	European Patent Convention	Pending	Control of radio links in a multiple carrier system	ATIS.3GPP.25.331V8250-2016
7243/CHENP/2011	India	Pending	Control of radio links in a multiple carrier system	ATIS.3GPP.25.331V8250-2016
5628290	Japan	Granted	Control of radio links in a multiple carrier system	ATIS.3GPP.25.331V8250-2016
10-1326635	Republic of Korea	Granted	Control of radio links in a multiple carrier system	ATIS.3GPP.25.331V8250-2016
8,989,107	United States	Granted	ACTIVATION DEACTIVATION OF SECONDARY UL CARRIER IN DC HSUPA	ATIS.3GPP.25.433V8140-2016
8005/CHENP/2011	India	Pending	Activation/de-activation of secondary UL carrier in DC HSUPA	ATIS.3GPP.25.433V8140-2016
8,767,545	United States	Granted	RADIO ACCESS NETWORK CONTROL OF MULTIMEDIA APPLICATION DATA RATES	ATIS.3GPP.48.018V8110-2014
9,002,357	United States	Granted	Systems, apparatus and methods to facilitate handover security	ATIS.3GPP.33.401V880-2012
PI1011742-3	Brazil	Pending	Systems, apparatus and methods to facilitate handover security	ATIS.3GPP.33.401V880-2012
ZL201080028625.9	China P.R.	Granted	Systems, apparatus and methods to facilitate handover security	ATIS.3GPP.33.401V880-2012
10730650.8	European Patent Convention	Pending	Systems, apparatus and methods to facilitate handover security	ATIS.3GPP.33.401V880-2012
6/MUMNP/2012	India	Pending	Systems, apparatus and methods to facilitate handover security	ATIS.3GPP.33.401V880-2012
5485387	Japan	Granted	Systems, apparatus and methods to facilitate handover security	ATIS.3GPP.33.401V880-2012
10-1430014	Republic of Korea	Granted	Systems, apparatus and methods to facilitate handover security	ATIS.3GPP.33.401V880-2012
I436653	Taiwan	Granted	Systems, apparatus and methods to facilitate handover security	ATIS.3GPP.33.401V880-2012
8,817,702	United States	Granted	Mitigation of interference due to peer-to-peer communication	ATIS.3GPP.36.213V1240-2015
BR1120120015265	Brazil	Pending	Method and apparatus for mitigation of interference due to peer-to-peer communication	ATIS.3GPP.36.213V1240-2015
2768394	Canada	Pending	Method and apparatus for mitigation of interference due to peer-to-peer communication	ATIS.3GPP.36.213V1240-2015
2925968	Canada	Pending	Method and apparatus for mitigation of interference due to peer-to-peer communication	ATIS.3GPP.36.213V1240-2015

201080032788.4	China P.R.	Pending	Method and apparatus for mitigation of interference due to peer-to-peer communication	ATIS.3GPP.36.213V1240-2015
201410185341.0	China P.R.	Pending	Method and apparatus for mitigation of interference due to peer-to-peer communication	ATIS.3GPP.36.213V1240-2015
12111889.7	Hong Kong	Pending	Method and apparatus for mitigation of interference due to peer-to-peer communication	ATIS.3GPP.36.213V1240-2015
14111313.1	Hong Kong	Pending	Method and apparatus for mitigation of interference due to peer-to-peer communication	ATIS.3GPP.36.213V1240-2015
9,210,668	United States	Granted	Mitigation of interference due to peer-to-peer communication	ATIS.3GPP.36.213V1240-2015
10740068.1	European Patent Convention	Pending	Method and apparatus for mitigation of interference due to peer-to-peer communication	ATIS.3GPP.36.213V1240-2015
W-00201200667	Indonesia	Pending	Method and apparatus for mitigation of interference due to peer-to-peer communication	ATIS.3GPP.36.213V1240-2015
195/MUMNP/2012	India	Pending	Method and apparatus for mitigation of interference due to peer-to-peer communication	ATIS.3GPP.36.213V1240-2015
5431587	Japan	Granted	Method and apparatus for mitigation of interference due to peer-to-peer communication	ATIS.3GPP.36.213V1240-2015
5726992	Japan	Granted	Method and apparatus for mitigation of interference due to peer-to-peer communication	ATIS.3GPP.36.213V1240-2015
10-1629393	Republic of Korea	Granted	Method and apparatus for mitigation of interference due to peer-to-peer communication	ATIS.3GPP.36.213V1240-2015
10-2015-7023227	Republic of Korea	Pending	Method and apparatus for mitigation of interference due to peer-to-peer communication	ATIS.3GPP.36.213V1240-2015
10-2016-7015681	Republic of Korea	Pending	Method and apparatus for mitigation of interference due to peer-to-peer communication	ATIS.3GPP.36.213V1240-2015
PI 2012000122	Malaysia	Pending	Method and apparatus for mitigation of interference due to peer-to-peer communication	ATIS.3GPP.36.213V1240-2015
1-2012-500096	Philippines	Granted	Method and apparatus for mitigation of interference due to peer-to-peer communication	ATIS.3GPP.36.213V1240-2015
2503150	Russian Federation	Granted	Method and apparatus for mitigation of interference due to peer-to-peer communication	ATIS.3GPP.36.213V1240-2015
1201000226	Thailand	Pending	Method and apparatus for mitigation of interference due to peer-to-peer communication	ATIS.3GPP.36.213V1240-2015
I501683	Taiwan	Granted	Mitigation of interference due to peer-to-peer communication	ATIS.3GPP.36.213V1240-2015
103143875	Taiwan	Pending	Mitigation of interference due to peer-to-peer communication	ATIS.3GPP.36.213V1240-2015
2012/00952	South Africa	Granted	Method and apparatus for mitigation of interference due to peer-to-peer communication	ATIS.3GPP.36.213V1240-2015
8,767,639	United States	Granted	Systems and methods for providing feedback in an enhanced uplink network	ATIS.3GPP.25.321V8170-2014
BR1120120025570	Brazil	Pending	Systems and methods for providing feedback in an enhanced uplink network	ATIS.3GPP.25.321V8170-2014
ZL201080034423.5	China P.R.	Granted	Systems and methods for providing feedback in an enhanced uplink network	ATIS.3GPP.25.321V8170-2014
EP2462760	Germany	Granted	Method and apparatus for providing feedback in an enhanced uplink network	ATIS.3GPP.25.321V8170-2014
EP2462760	European Patent Convention	Granted	Method and apparatus for providing feedback in an enhanced uplink network	ATIS.3GPP.25.321V8170-2014
EP2462760	Spain	Granted	Method and apparatus for providing feedback in an enhanced uplink network	ATIS.3GPP.25.321V8170-2014

EP2462760	France	Granted	Method and apparatus for providing feedback in an enhanced uplink network	ATIS.3GPP.25.321V8170-2014
EP2462760	Great Britain	Granted	Method and apparatus for providing feedback in an enhanced uplink network	ATIS.3GPP.25.321V8170-2014
933/CHENP/2012	India	Pending	Systems and methods for providing feedback in an enhanced uplink network	ATIS.3GPP.25.321V8170-2014
EP2462760	Italy	Granted	Method and apparatus for providing feedback in an enhanced uplink network	ATIS.3GPP.25.321V8170-2014
5404929	Japan	Granted	Systems and methods for providing feedback in an enhanced uplink network	ATIS.3GPP.25.321V8170-2014
10-1433274	Republic of Korea	Granted	Systems and methods for providing feedback in an enhanced uplink network	ATIS.3GPP.25.321V8170-2014
EP2462760	Netherlands	Granted	Method and apparatus for providing feedback in an enhanced uplink network	ATIS.3GPP.25.321V8170-2014
8,638,711	United States	Granted	Systems and methods of maintaining core network status during serving radio network subsystem relocation	ATIS.3GPP.25.331V8250-2016
BR1120120030566	Brazil	Pending	Systems and methods of maintaining core network status during serving radio network subsystem relocation	ATIS.3GPP.25.331V8250-2016
ZL201080034713.X	China P.R.	Granted	Systems and methods of maintaining core network status during serving radio network subsystem relocation	ATIS.3GPP.25.331V8250-2016
201410680235.X	China P.R.	Pending	Systems and methods of maintaining core network status during serving radio network subsystem relocation	ATIS.3GPP.25.331V8250-2016
10747737.4	European Patent Convention	Pending	Systems and methods of maintaining core network status during serving radio network subsystem relocation	ATIS.3GPP.25.331V8250-2016
1289/CHENP/2012	India	Pending	Systems and methods of maintaining core network status during serving radio network subsystem relocation	ATIS.3GPP.25.331V8250-2016
5583768	Japan	Granted	Systems and methods of maintaining core network status during serving radio network subsystem relocation	ATIS.3GPP.25.331V8250-2016
5749365	Japan	Granted	Systems and methods of maintaining core network status during serving radio network subsystem relocation	ATIS.3GPP.25.331V8250-2016
10-1364654	Republic of Korea	Granted	Systems and methods of maintaining core network status during serving radio network subsystem relocation	ATIS.3GPP.25.331V8250-2016
I450607	Taiwan	Granted	Systems and methods of maintaining core network status during serving radio network subsystem relocation	ATIS.3GPP.25.331V8250-2016
8,923,244	United States	Granted	Systems and methods of advertising handoff	ATIS.3GPP.44.018V8170-2014
801/CHENP/2012	India	Pending	Systems and methods of advertising handoff	ATIS.3GPP.44.018V8170-2014
8,923,244	United States	Granted	Systems and methods of advertising handoff	ATIS.3GPP.44.060V8170-2014
801/CHENP/2012	India	Pending	Systems and methods of advertising handoff	ATIS.3GPP.44.060V8170-2014
8,923,244	United States	Granted	Systems and methods of advertising handoff	ATIS.3GPP.45.008V8160-2014
801/CHENP/2012	India	Pending	Systems and methods of advertising handoff	ATIS.3GPP.45.008V8160-2014
8,942,209	United States	Granted	Systems and methods for supporting an enhanced serving cell change when moving among different cell types	ATIS.3GPP.25.331V8250-2016
14/567,090	United States	Pending	Systems and methods for supporting an enhanced serving cell change when moving among different cell types	ATIS.3GPP.25.331V8250-2016
ZL201080035454.2	China P.R.	Granted	Systems and methods for supporting an enhanced serving cell change when moving among different cell types	ATIS.3GPP.25.331V8250-2016
10803534.6	European Patent Convention	Pending	Systems and methods for supporting an enhanced serving cell change when moving among different cell types	ATIS.3GPP.25.331V8250-2016
1273/CHENP/2012	India	Pending	Systems and methods for supporting an enhanced serving cell change when moving among different cell types	ATIS.3GPP.25.331V8250-2016

5345249	Japan	Granted	Systems and methods for supporting an enhanced serving cell change when moving among different cell types	ATIS.3GPP.25.331V8250-2016
10-1449726	Republic of Korea	Granted	Systems and methods for supporting an enhanced serving cell change when moving among different cell types	ATIS.3GPP.25.331V8250-2016
6,631,121	United States	Granted	Method and apparatus for managing overhead channel in mobile communication system	ATIS.3GPP.25.304V8120-2012
6,356,599	United States	Granted	AFC device and method of controlling reception frequency in a dual-mode terminal	ATIS.3GPP.34.108V8110-2012
PI9906755-2	Brazil	Pending	AFC device and method of controlling reception frequency in a dual-mode terminal	ATIS.3GPP.34.108V8110-2012
6,963,540	United States	Granted	Apparatus and method for assigning a common packet channel in a CDMA communication system	ATIS.3GPP.25.321V8170-2014
PI0016008-3	Brazil	Pending	Apparatus and method for assigning a common packet channel in a CDMA communication system	ATIS.3GPP.25.321V8170-2014
3807982	Japan	Granted	Apparatus and method for assigning a common packet channel in a CDMA communication system	ATIS.3GPP.25.321V8170-2014
2262202	Russian Federation	Granted	Device and method for assigning common packet channel in mobile communications system	ATIS.3GPP.25.321V8170-2014
6,963,540	United States	Granted	Apparatus and method for assigning a common packet channel in a CDMA communication system	ATIS.3GPP.25.331V8250-2016
PI0016008-3	Brazil	Pending	Apparatus and method for assigning a common packet channel in a CDMA communication system	ATIS.3GPP.25.331V8250-2016
3807982	Japan	Granted	Apparatus and method for assigning a common packet channel in a CDMA communication system	ATIS.3GPP.25.331V8250-2016
2262202	Russian Federation	Granted	Device and method for assigning common packet channel in mobile communications system	ATIS.3GPP.25.331V8250-2016
6,963,540	United States	Granted	Apparatus and method for assigning a common packet channel in a CDMA communication system	ATIS.3GPP.25.430V800-2009
PI0016008-3	Brazil	Pending	Apparatus and method for assigning a common packet channel in a CDMA communication system	ATIS.3GPP.25.430V800-2009
3807982	Japan	Granted	Apparatus and method for assigning a common packet channel in a CDMA communication system	ATIS.3GPP.25.430V800-2009
2262202	Russian Federation	Granted	Device and method for assigning common packet channel in mobile communications system	ATIS.3GPP.25.430V800-2009
8,811,513	United States	Granted	Antenna switching in a closed loop transmit diversity system	ATIS.3GPP.25.214V8130-2014
ZL201180008075.9	China P.R.	Granted	Antenna switching in a closed loop transmit diversity system	ATIS.3GPP.25.214V8130-2014
11706063.2	European Patent Convention	Pending	Antenna switching in a closed loop transmit diversity system	ATIS.3GPP.25.214V8130-2014
6786/CHENP/2012	India	Pending	Antenna switching in a closed loop transmit diversity system	ATIS.3GPP.25.214V8130-2014
5833029	Japan	Granted	Antenna switching in a closed loop transmit diversity system	ATIS.3GPP.25.214V8130-2014
10-1451886	Republic of Korea	Granted	Antenna switching in a closed loop transmit diversity system	ATIS.3GPP.25.214V8130-2014
9,264,954	United States	Granted	Neighbor relation information management	ATIS.3GPP.25.331V8250-2016
BR1120120275860	Brazil	Pending	Neighbor relation information management	ATIS.3GPP.25.331V8250-2016
ZL201180021066.3	China P.R.	Granted	A method and apparatus for acquiring neighbor relation information	ATIS.3GPP.25.331V8250-2016

201510138206.5	China P.R.	Pending	Neighbor relation information management	ATIS.3GPP.25.331V8250-2016
15/041,976	United States	Pending	Neighbor relation information management	ATIS.3GPP.25.331V8250-2016
11721854.5	European Patent Convention	Pending	Neighbor relation information management	ATIS.3GPP.25.331V8250-2016
8296/CHENP/2012	India	Pending	Neighbor relation information management	ATIS.3GPP.25.331V8250-2016
5813752	Japan	Granted	Neighbor relation information management	ATIS.3GPP.25.331V8250-2016
2014-064184	Japan	Pending	Neighbor relation information management	ATIS.3GPP.25.331V8250-2016
2016-014330	Japan	Pending	Neighbor relation information management	ATIS.3GPP.25.331V8250-2016
2015-117546	Japan	Pending	Neighbor relation information management	ATIS.3GPP.25.331V8250-2016
10-1461112	Republic of Korea	Granted	Neighbor relation information management	ATIS.3GPP.25.331V8250-2016
I473509	Taiwan	Granted	Neighbor relation information management	ATIS.3GPP.25.331V8250-2016
9,264,954	United States	Granted	Neighbor relation information management	ATIS.3GPP.25.484V1020-2014
BR1120120275860	Brazil	Pending	Neighbor relation information management	ATIS.3GPP.25.484V1020-2014
ZL201180021066.3	China P.R.	Granted	A method and apparatus for acquiring neighbor relation information	ATIS.3GPP.25.484V1020-2014
201510138206.5	China P.R.	Pending	Neighbor relation information management	ATIS.3GPP.25.484V1020-2014
15/041,976	United States	Pending	Neighbor relation information management	ATIS.3GPP.25.484V1020-2014
11721854.5	European Patent Convention	Pending	Neighbor relation information management	ATIS.3GPP.25.484V1020-2014
8296/CHENP/2012	India	Pending	Neighbor relation information management	ATIS.3GPP.25.484V1020-2014
5813752	Japan	Granted	Neighbor relation information management	ATIS.3GPP.25.484V1020-2014
2014-064184	Japan	Pending	Neighbor relation information management	ATIS.3GPP.25.484V1020-2014
2016-014330	Japan	Pending	Neighbor relation information management	ATIS.3GPP.25.484V1020-2014
2015-117546	Japan	Pending	Neighbor relation information management	ATIS.3GPP.25.484V1020-2014
10-1461112	Republic of Korea	Granted	Neighbor relation information management	ATIS.3GPP.25.484V1020-2014
I473509	Taiwan	Granted	Neighbor relation information management	ATIS.3GPP.25.484V1020-2014
9,294,972	United States	Granted	Neighbor relation information management	ATIS.3GPP.25.331V8250-2016
ZL201180021306.X	China P.R.	Granted	Neighbor relation information management	ATIS.3GPP.25.331V8250-2016
11722946.8	European Patent Convention	Pending	Neighbor relation information management	ATIS.3GPP.25.331V8250-2016
13184207.2	European Patent Convention	Pending	Neighbor relation information management	ATIS.3GPP.25.331V8250-2016
8131/CHENP/2012	India	Pending	Neighbor relation information management	ATIS.3GPP.25.331V8250-2016
5763174	Japan	Granted	Neighbor relation information management	ATIS.3GPP.25.331V8250-2016
2015-078474	Japan	Pending	Neighbor relation information management	ATIS.3GPP.25.331V8250-2016
10-1461107	Republic of Korea	Granted	Neighbor relation information management	ATIS.3GPP.25.331V8250-2016
10-1504659	Republic of Korea	Granted	Neighbor relation information management	ATIS.3GPP.25.331V8250-2016
8,873,440	United States	Granted	Maintaining different virtual active sets for different cell types	ATIS.3GPP.25.331V8250-2016
ZL201180017423.9	China P.R.	Granted	Maintaining different virtual active sets for different cell types	ATIS.3GPP.25.331V8250-2016
11713580.6	European Patent Convention	Pending	Maintaining different virtual active sets for different cell types	ATIS.3GPP.25.331V8250-2016
7335/CHENP/2012	India	Pending	Maintaining different virtual active sets for different cell types	ATIS.3GPP.25.331V8250-2016
5607232	Japan	Granted	Maintaining different virtual active sets for different cell types	ATIS.3GPP.25.331V8250-2016
10-1452808	Republic of Korea	Granted	Maintaining different virtual active sets for different cell types	ATIS.3GPP.25.331V8250-2016
10-2014-7012312	Republic of Korea	Pending	Maintaining different virtual active sets for different cell types	ATIS.3GPP.25.331V8250-2016

9,031,010	United States	Granted	Separate resource partitioning management for uplink control and uplink data signals	ATIS.3GPP.36.213V1240-2015
201180017750.4	China P.R.	Pending	Separate resource partitioning management for uplink control and uplink data signals	ATIS.3GPP.36.213V1240-2015
11716711.4	European Patent Convention	Pending	Separate resource partitioning management for uplink control and uplink data signals	ATIS.3GPP.36.213V1240-2015
2329/MUMNP/2012	India	Pending	Separate resource partitioning management for uplink control and uplink data signals	ATIS.3GPP.36.213V1240-2015
5646727	Japan	Granted	Separate resource partitioning management for uplink control and uplink data signals	ATIS.3GPP.36.213V1240-2015
10-1475882	Republic of Korea	Granted	Separate resource partitioning management for uplink control and uplink data signals	ATIS.3GPP.36.213V1240-2015
9,001,750	United States	Granted	Method and apparatus for signaling user equipment capabilities	ATIS.3GPP.25.331V8250-2016
ZL201180017392.7	China P.R.	Granted	Method and apparatus for signaling user equipment capabilities	ATIS.3GPP.25.331V8250-2016
11716699.1	European Patent Convention	Pending	Method and apparatus for signaling user equipment capabilities	ATIS.3GPP.25.331V8250-2016
8175/CHENP/2012	India	Pending	Method and apparatus for signaling user equipment capabilities	ATIS.3GPP.25.331V8250-2016
5571240	Japan	Granted	Method and apparatus for signaling user equipment capabilities	ATIS.3GPP.25.331V8250-2016
10-1495646	Republic of Korea	Granted	Method and apparatus for signaling user equipment capabilities	ATIS.3GPP.25.331V8250-2016
8,812,657	United States	Granted	Network-assisted peer discovery	ATIS.3GPP.24.334V1211-2016
BR1120120261398	Brazil	Pending	Network-assisted peer discovery	ATIS.3GPP.24.334V1211-2016
ZL201180019108.X	China P.R.	Granted	Network-assisted peer discovery	ATIS.3GPP.24.334V1211-2016
14/336,533	United States	Pending	Network-assisted peer discovery	ATIS.3GPP.24.334V1211-2016
11717845.9	European Patent Convention	Pending	Network-assisted peer discovery	ATIS.3GPP.24.334V1211-2016
8869/CHENP/2012	India	Pending	Network-assisted peer discovery	ATIS.3GPP.24.334V1211-2016
5514957	Japan	Granted	Network-assisted peer discovery	ATIS.3GPP.24.334V1211-2016
10-1398055	Republic of Korea	Granted	Network-assisted peer discovery	ATIS.3GPP.24.334V1211-2016
9,084,240	United States	Granted	Multiplexing of peer-to-peer (P2P) communication and wide area network (WAN) communication	ATIS.3GPP.36.213V1240-2015
PCT/US2015/040187	Patent Cooperation Treaty	Pending	Multiplexing of peer-to-peer (P2P) communication and wide area network (WAN) communication	ATIS.3GPP.36.213V1240-2015
13/085,337	United States	Pending	Transmission and reception of proximity detection signal for peer discovery	ATIS.3GPP.36.211V1240-2015
ZL201180019087.1	China P.R.	Granted	Transmission and reception of proximity detection signal for peer discovery	ATIS.3GPP.36.211V1240-2015
15/264,236	United States	Pending	Transmission and reception of proximity detection signal for peer discovery	ATIS.3GPP.36.211V1240-2015
11717847.5	European Patent Convention	Pending	Transmission and reception of proximity detection signal for peer discovery	ATIS.3GPP.36.211V1240-2015
8870/CHENP/2012	India	Pending	Transmission and reception of proximity detection signal for peer discovery	ATIS.3GPP.36.211V1240-2015
5646730	Japan	Granted	Transmission and reception of proximity detection signal for peer discovery	ATIS.3GPP.36.211V1240-2015
10-1411556	Republic of Korea	Granted	Transmission and reception of proximity detection signal for peer discovery	ATIS.3GPP.36.211V1240-2015
8,891,387	United States	Granted	UE based conditional enabling of ULTD	ATIS.3GPP.25.331V8250-2016
BR1120120273981	Brazil	Pending	UE based conditional enabling of ULTD	ATIS.3GPP.25.331V8250-2016
ZL201180022311.2	China P.R.	Granted	UE based conditional enabling of ULTD	ATIS.3GPP.25.331V8250-2016
11721866.9	European Patent Convention	Pending	UE based conditional enabling of ULTD	ATIS.3GPP.25.331V8250-2016
8516/CHENP/2012	India	Pending	UE based conditional enabling of ULTD	ATIS.3GPP.25.331V8250-2016

5788498	Japan	Granted	UE based conditional enabling of ULTD	ATIS.3GPP.25.331V8250-2016
2015-080187	Japan	Pending	UE based conditional enabling of ULTD	ATIS.3GPP.25.331V8250-2016
10-1517467	Republic of Korea	Granted	UE based conditional enabling of ULTD	ATIS.3GPP.25.331V8250-2016
9,386,607	United States	Granted	Method and apparatus for managing packet data network connectivity	ATIS.3GPP.23.060V8170-2014
ZL201180035447.7	China P.R.	Granted	Managing packet data network, PDN, connectivity	ATIS.3GPP.23.060V8170-2014
15/201,289	United States	Pending	Method and apparatus for managing packet data network connectivity	ATIS.3GPP.23.060V8170-2014
11728150.1	European Patent Convention	Pending	Managing packet data network, PDN, connectivity	ATIS.3GPP.23.060V8170-2014
10403/CHENP/2012	India	Pending	Managing packet data network, PDN, connectivity	ATIS.3GPP.23.060V8170-2014
5632537	Japan	Granted	Managing packet data network, PDN, connectivity	ATIS.3GPP.23.060V8170-2014
2014-208343	Japan	Pending	Managing packet data network, PDN, connectivity	ATIS.3GPP.23.060V8170-2014
2016-039076	Japan	Pending	Managing packet data network, PDN, connectivity	ATIS.3GPP.23.060V8170-2014
10-1549895	Republic of Korea	Granted	Managing packet data network, PDN, connectivity	ATIS.3GPP.23.060V8170-2014
8,989,140	United States	Granted	System and method for mobility in a multi-point HSDPA communication network	ATIS.3GPP.25.331V8250-2016
ZL201180032536.6	China P.R.	Granted	Mobility in a multi-point HSDPA communication network	ATIS.3GPP.25.331V8250-2016
11735714.5	European Patent Convention	Pending	Mobility in a multi-point HSDPA communication network	ATIS.3GPP.25.331V8250-2016
2738/MUMNP/2012	India	Pending	Mobility in a multi-point HSDPA communication network	ATIS.3GPP.25.331V8250-2016
5564616	Japan	Granted	Mobility in a multi-point HSDPA communication network	ATIS.3GPP.25.331V8250-2016
10-1486411	Republic of Korea	Granted	Mobility in a multi-point HSDPA communication network	ATIS.3GPP.25.331V8250-2016
8,861,451	United States	Granted	Method and apparatus of deactivating carriers in wireless communications	ATIS.3GPP.36.300V8120-2010
ZL201180047223.8	China P.R.	Granted	Method and apparatus of deactivating carriers in wireless communications	ATIS.3GPP.36.300V8120-2010
EP2604007	Germany	Granted	Method and apparatus of deactivating carriers in wireless communications	ATIS.3GPP.36.300V8120-2010
EP2604007	European Patent Convention	Granted	Method and apparatus of deactivating carriers in wireless communications	ATIS.3GPP.36.300V8120-2010
EP2604007	Spain	Granted	Method and apparatus of deactivating carriers in wireless communications	ATIS.3GPP.36.300V8120-2010
EP2604007	France	Granted	Method and apparatus of deactivating carriers in wireless communications	ATIS.3GPP.36.300V8120-2010
EP2604007	Great Britain	Granted	Method and apparatus of deactivating carriers in wireless communications	ATIS.3GPP.36.300V8120-2010
1143/CHENP/2013	India	Pending	Method and apparatus of deactivating carriers in wireless communications	ATIS.3GPP.36.300V8120-2010
EP2604007	Italy	Granted	Method and apparatus of deactivating carriers in wireless communications	ATIS.3GPP.36.300V8120-2010
5684387	Japan	Granted	Method and apparatus of deactivating carriers in wireless communications	ATIS.3GPP.36.300V8120-2010
10-1430015	Republic of Korea	Granted	Method and apparatus of deactivating carriers in wireless communications	ATIS.3GPP.36.300V8120-2010
EP2604007	Netherlands	Granted	Method and apparatus of deactivating carriers in wireless communications	ATIS.3GPP.36.300V8120-2010
8,599,763	United States	Granted	Timing control in a multi-point high speed downlink packet access network	ATIS.3GPP.25.308V8111-2014
ZL201180039016.8	China P.R.	Granted	Timing control in a multi-point high speed downlink packet access network	ATIS.3GPP.25.308V8111-2014
EP2606593	Germany	Granted	Timing control in a multi-point high speed downlink packet access network	ATIS.3GPP.25.308V8111-2014
EP2606593	European Patent Convention	Granted	Timing control in a multi-point high speed downlink packet access network	ATIS.3GPP.25.308V8111-2014
EP2606593	Spain	Granted	Timing control in a multi-point high speed downlink packet access network	ATIS.3GPP.25.308V8111-2014
EP2606593	France	Granted	Timing control in a multi-point high speed downlink packet access network	ATIS.3GPP.25.308V8111-2014
EP2606593	Great Britain	Granted	Timing control in a multi-point high speed downlink packet access network	ATIS.3GPP.25.308V8111-2014
724/CHENP/2013	India	Pending	Timing control in a multi-point high speed downlink packet access network	ATIS.3GPP.25.308V8111-2014
EP2606593	Italy	Granted	Timing control in a multi-point high speed downlink packet access network	ATIS.3GPP.25.308V8111-2014

5572762	Japan	Granted	Timing control in a multi-point high speed downlink packet access network	ATIS.3GPP.25.308V8111-2014
10-1582540	Republic of Korea	Granted	Timing control in a multi-point high speed downlink packet access network	ATIS.3GPP.25.308V8111-2014
EP2606593	Netherlands	Granted	Timing control in a multi-point high speed downlink packet access network	ATIS.3GPP.25.308V8111-2014
8,599,763	United States	Granted	Timing control in a multi-point high speed downlink packet access network	ATIS.3GPP.25.331V8250-2016
ZL201180039016.8	China P.R.	Granted	Timing control in a multi-point high speed downlink packet access network	ATIS.3GPP.25.331V8250-2016
EP2606593	Germany	Granted	Timing control in a multi-point high speed downlink packet access network	ATIS.3GPP.25.331V8250-2016
EP2606593	European Patent Convention	Granted	Timing control in a multi-point high speed downlink packet access network	ATIS.3GPP.25.331V8250-2016
EP2606593	Spain	Granted	Timing control in a multi-point high speed downlink packet access network	ATIS.3GPP.25.331V8250-2016
EP2606593	France	Granted	Timing control in a multi-point high speed downlink packet access network	ATIS.3GPP.25.331V8250-2016
EP2606593	Great Britain	Granted	Timing control in a multi-point high speed downlink packet access network	ATIS.3GPP.25.331V8250-2016
724/CHENP/2013	India	Pending	Timing control in a multi-point high speed downlink packet access network	ATIS.3GPP.25.331V8250-2016
EP2606593	Italy	Granted	Timing control in a multi-point high speed downlink packet access network	ATIS.3GPP.25.331V8250-2016
5572762	Japan	Granted	Timing control in a multi-point high speed downlink packet access network	ATIS.3GPP.25.331V8250-2016
10-1582540	Republic of Korea	Granted	Timing control in a multi-point high speed downlink packet access network	ATIS.3GPP.25.331V8250-2016
EP2606593	Netherlands	Granted	Timing control in a multi-point high speed downlink packet access network	ATIS.3GPP.25.331V8250-2016
9,307,431	United States	Granted	Reporting of channel properties in heterogeneous networks	ATIS.3GPP.36.213V1240-2015
15/009,491	United States	Pending	Reporting of channel properties in heterogeneous networks	ATIS.3GPP.36.213V1240-2015
201180053719.6	China P.R.	Pending	Reporting of channel properties in heterogeneous networks	ATIS.3GPP.36.213V1240-2015
11764659.6	European Patent Convention	Pending	Reporting of channel properties in heterogeneous networks	ATIS.3GPP.36.213V1240-2015
2558/CHENP/2013	India	Pending	Reporting of channel properties in heterogeneous networks	ATIS.3GPP.36.213V1240-2015
5762546	Japan	Granted	Reporting of channel properties in heterogeneous networks	ATIS.3GPP.36.213V1240-2015
5996726	Japan	Granted	Reporting of channel properties in heterogeneous networks	ATIS.3GPP.36.213V1240-2015
10-1513941	Republic of Korea	Granted	Reporting of channel properties in heterogeneous networks	ATIS.3GPP.36.213V1240-2015
9,179,303	United States	Granted	Methods and apparatus for transmitting and receiving secure and non-secure data	ATIS.3GPP.44.018V8170-2014
BR1120130120584	Brazil	Pending	Methods and apparatus for transmitting and receiving secure and non-secure data	ATIS.3GPP.44.018V8170-2014
ZL201180055585.1	China P.R.	Granted	Methods and apparatus for transmitting and receiving secure and non-secure data	ATIS.3GPP.44.018V8170-2014
11788717.4	European Patent Convention	Pending	Methods and apparatus for transmitting and receiving secure and non-secure data	ATIS.3GPP.44.018V8170-2014
3377/CHENP/2013	India	Pending	Methods and apparatus for transmitting and receiving secure and non-secure data	ATIS.3GPP.44.018V8170-2014
5739006	Japan	Granted	Methods and apparatus for transmitting and receiving secure and non-secure data	ATIS.3GPP.44.018V8170-2014
10-1593420	Republic of Korea	Granted	Methods and apparatus for transmitting and receiving secure and non-secure data	ATIS.3GPP.44.018V8170-2014
I469610	Taiwan	Granted	Methods and apparatus for transmitting and receiving secure and non-secure data	ATIS.3GPP.44.018V8170-2014
13/294,138	United States	Pending	Method and apparatus for assigning wireless network packet resources to wireless terminals	ATIS.3GPP.44.018V8170-2014

ZL201180054301.7	China P.R.	Granted	Method and apparatus for assigning wireless network packet resources to wireless terminals	ATIS.3GPP.44.018V8170-2014
EP2638759	Germany	Granted	Method and apparatus for assigning wireless network packet resources to wireless terminals	ATIS.3GPP.44.018V8170-2014
EP2638759	European Patent Convention	Granted	Method and apparatus for assigning wireless network packet resources to wireless terminals	ATIS.3GPP.44.018V8170-2014
EP2638759	France	Granted	Method and apparatus for assigning wireless network packet resources to wireless terminals	ATIS.3GPP.44.018V8170-2014
EP2638759	Great Britain	Granted	Method and apparatus for assigning wireless network packet resources to wireless terminals	ATIS.3GPP.44.018V8170-2014
2893/CHENP/2013	India	Pending	Method and apparatus for assigning wireless network packet resources to wireless terminals	ATIS.3GPP.44.018V8170-2014
5410645	Japan	Granted	Method and apparatus for assigning wireless network packet resources to wireless terminals	ATIS.3GPP.44.018V8170-2014
10-2015-7012454	Republic of Korea	Pending	Method and apparatus for assigning wireless network packet resources to wireless terminals	ATIS.3GPP.44.018V8170-2014
8,934,560	United States	Granted	Method and apparatus of using CDD like schemes with UE-RS based open loop beamforming	ATIS.3GPP.36.211V1240-2015
9,363,001	United States	Granted	Method and apparatus of using CDD like schemes with UE-RS based open loop beamforming	ATIS.3GPP.36.211V1240-2015
ZL201180048254.5	China P.R.	Granted	Method and apparatus of using CDD like schemes with UE-RS based open loop beamforming	ATIS.3GPP.36.211V1240-2015
201510204626.9	China P.R.	Pending	Method and apparatus of using CDD like schemes with UE-RS based open loop beamforming	ATIS.3GPP.36.211V1240-2015
11773619.9	European Patent Convention	Pending	Method and apparatus of using CDD like schemes with UE-RS based open loop beamforming	ATIS.3GPP.36.211V1240-2015
544/MUMNP/2013	India	Pending	Method and apparatus of using CDD like schemes with UE-RS based open loop beamforming	ATIS.3GPP.36.211V1240-2015
5805771	Japan	Granted	Method and apparatus of using CDD like schemes with UE-RS based open loop beamforming	ATIS.3GPP.36.211V1240-2015
2014-218449	Japan	Pending	Method and apparatus of using CDD like schemes with UE-RS based open loop beamforming	ATIS.3GPP.36.211V1240-2015
2015-116726	Japan	Pending	Method and apparatus of using CDD like schemes with UE-RS based open loop beamforming	ATIS.3GPP.36.211V1240-2015
10-1569690	Republic of Korea	Granted	Method and apparatus of using CDD like schemes with UE-RS based open loop beamforming	ATIS.3GPP.36.211V1240-2015
10-2015-7010936	Republic of Korea	Pending	Method and apparatus of using CDD like schemes with UE-RS based open loop beamforming	ATIS.3GPP.36.211V1240-2015
9,398,544	United States	Granted	Dynamic uplink power control	ATIS.3GPP.36.213V1240-2015
201180062678.7	China P.R.	Pending	Dynamic uplink power control	ATIS.3GPP.36.213V1240-2015
16181248.2	European Patent Convention	Pending	Dynamic uplink power control	ATIS.3GPP.36.213V1240-2015
850/MUMNP/2013	India	Pending	Dynamic uplink power control	ATIS.3GPP.36.213V1240-2015
5795380	Japan	Granted	Dynamic uplink power control	ATIS.3GPP.36.213V1240-2015
5976877	Japan	Granted	Dynamic uplink power control	ATIS.3GPP.36.213V1240-2015

495/2013	United Arab Emirates	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
BR1120130114169	Brazil	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
2815532	Canada	Granted	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
201180060506.6	China P.R.	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
EP2638745	Germany	Granted	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
EP2638745	European Patent Convention	Granted	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
EP2638745	Spain	Granted	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
EP2638745	Finland	Granted	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
EP2638745	France	Granted	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
EP2638745	Great Britain	Granted	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
EP2638745	Hungary	Granted	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
W-00201302494	Indonesia	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
225784	Israel	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
792/MUMNP/2013	India	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
EP2638745	Italy	Granted	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
5624220	Japan	Granted	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
10-1615684	Republic of Korea	Granted	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
PI 2013001455	Malaysia	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
EP2638745	Netherlands	Granted	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
2544000	Russian Federation	Granted	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
1301002397	Thailand	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
EP2638745	Turkey	Granted	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014

2013/03838	South Africa	Granted	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
8,953,713	United States	Granted	System and method for uplink multiple input multiple output transmission	ATIS.3GPP.25.302V870-2012
BR1120130114070	Brazil	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	ATIS.3GPP.25.302V870-2012
ZL201180060481.X	China P.R.	Granted	System and method for transmitting control information in an uplink multiple input multiple output transmission	ATIS.3GPP.25.302V870-2012
11788674.7	European Patent Convention	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	ATIS.3GPP.25.302V870-2012
W-00201302490	Indonesia	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	ATIS.3GPP.25.302V870-2012
225836	Israel	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	ATIS.3GPP.25.302V870-2012
791/MUMNP/2013	India	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	ATIS.3GPP.25.302V870-2012
5629834	Japan	Granted	System and method for transmitting control information in an uplink multiple input multiple output transmission	ATIS.3GPP.25.302V870-2012
10-1495650	Republic of Korea	Granted	System and method for transmitting control information in an uplink multiple input multiple output transmission	ATIS.3GPP.25.302V870-2012
PI 2013001453	Malaysia	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	ATIS.3GPP.25.302V870-2012
1-2013-500894	Philippines	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	ATIS.3GPP.25.302V870-2012
1301002398	Thailand	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	ATIS.3GPP.25.302V870-2012
2013/04048	South Africa	Granted	System and method for transmitting control information in an uplink multiple input multiple output transmission	ATIS.3GPP.25.302V870-2012
8,953,713	United States	Granted	System and method for uplink multiple input multiple output transmission	ATIS.3GPP.25.319V8120-2014
BR1120130114070	Brazil	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	ATIS.3GPP.25.319V8120-2014
ZL201180060481.X	China P.R.	Granted	System and method for transmitting control information in an uplink multiple input multiple output transmission	ATIS.3GPP.25.319V8120-2014
11788674.7	European Patent Convention	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	ATIS.3GPP.25.319V8120-2014
W-00201302490	Indonesia	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	ATIS.3GPP.25.319V8120-2014
225836	Israel	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	ATIS.3GPP.25.319V8120-2014
791/MUMNP/2013	India	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	ATIS.3GPP.25.319V8120-2014
5629834	Japan	Granted	System and method for transmitting control information in an uplink multiple input multiple output transmission	ATIS.3GPP.25.319V8120-2014
10-1495650	Republic of Korea	Granted	System and method for transmitting control information in an uplink multiple input multiple output transmission	ATIS.3GPP.25.319V8120-2014

PI 2013001453	Malaysia	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	ATIS.3GPP.25.319V8120-2014
1-2013-500894	Philippines	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	ATIS.3GPP.25.319V8120-2014
1301002398	Thailand	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	ATIS.3GPP.25.319V8120-2014
2013/04048	South Africa	Granted	System and method for transmitting control information in an uplink multiple input multiple output transmission	ATIS.3GPP.25.319V8120-2014
9,007,888	United States	Granted	System and method for uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
BR1120130114231	Brazil	Pending	System and method for uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
ZL201180060467.X	China P.R.	Granted	System and method for uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
EP2638749	Germany	Granted	System and method for uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
EP2638749	European Patent Convention	Granted	System and method for uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
EP2638749	Spain	Granted	System and method for uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
EP2638749	France	Granted	System and method for uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
EP2638749	Great Britain	Granted	System and method for uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
793/MUMNP/2013	India	Pending	System and method for uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
EP2638749	Italy	Granted	System and method for uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
5678197	Japan	Granted	System and method for uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
10-1519060	Republic of Korea	Granted	System and method for uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
EP2638749	Netherlands	Granted	System and method for uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
13/308,311	United States	Pending	Apparatus and methods for hand-in to a femto node	ATIS.3GPP.25.467V860-2012
P110104493	Argentina	Pending	Apparatus and methods for hand-in to a femto node	ATIS.3GPP.25.467V860-2012
ZL201180057719.3	China P.R.	Granted	Apparatus and methods for hand-in to a femto node	ATIS.3GPP.25.467V860-2012
201610651958.6	China P.R.	Pending	Apparatus and methods for hand-in to a femto node	ATIS.3GPP.25.467V860-2012
11794604.6	European Patent Convention	Pending	Apparatus and methods for hand-in to a femto node	ATIS.3GPP.25.467V860-2012
4060/CHENP/2013	India	Pending	Apparatus and methods for hand-in to a femto node	ATIS.3GPP.25.467V860-2012
5770305	Japan	Granted	Apparatus and methods for hand-in to a femto node	ATIS.3GPP.25.467V860-2012
2015-126919	Japan	Pending	Apparatus and methods for hand-in to a femto node	ATIS.3GPP.25.467V860-2012
10-1555466	Republic of Korea	Granted	Apparatus and methods for hand-in to a femto node	ATIS.3GPP.25.467V860-2012
10-2015-7007491	Republic of Korea	Pending	Apparatus and methods for hand-in to a femto node	ATIS.3GPP.25.467V860-2012
I466558	Taiwan	Granted	Apparatus and methods for hand-in to a femto node	ATIS.3GPP.25.467V860-2012
9,320,067	United States	Granted	Configuration of user equipment for peer-to-peer communication	ATIS.3GPP.36.331V8210-2016
BR1120130158522	Brazil	Pending	Configuration of user equipment for peer-to-peer communication	ATIS.3GPP.36.331V8210-2016
ZL201180068107.4	China P.R.	Granted	Configuration of user equipment for peer-to-peer communication	ATIS.3GPP.36.331V8210-2016
11820831.3	European Patent Convention	Pending	Configuration of user equipment for peer-to-peer communication	ATIS.3GPP.36.331V8210-2016
5197/CHENP/2013	India	Pending	Configuration of user equipment for peer-to-peer communication	ATIS.3GPP.36.331V8210-2016
5815734	Japan	Granted	Configuration of user equipment for peer-to-peer communication	ATIS.3GPP.36.331V8210-2016
2015-121222	Japan	Pending	Configuration of user equipment for peer-to-peer communication	ATIS.3GPP.36.331V8210-2016
10-2013-7019374	Republic of Korea	Pending	Configuration of user equipment for peer-to-peer communication	ATIS.3GPP.36.331V8210-2016
10-2014-7026088	Republic of Korea	Pending	Configuration of user equipment for peer-to-peer communication	ATIS.3GPP.36.331V8210-2016

10-2016-7002241	Republic of Korea	Pending	Configuration of user equipment for peer-to-peer communication	ATIS.3GPP.36.331V8210-2016
8,964,663	United States	Granted	Method and apparatus for signaling paging configurations and channel state information reference signal (CSI-RS) configurations	ATIS.3GPP.36.211V1240-2015
ZL201180064380.X	China P.R.	Granted	Method and apparatus for signaling paging configurations and channel state information reference signal (CSI-RS) configurations	ATIS.3GPP.36.211V1240-2015
EP2661935	Germany	Granted	Method and apparatus for signaling paging configurations and channel state information reference signal (CSI-RS) configurations	ATIS.3GPP.36.211V1240-2015
EP2661935	European Patent Convention	Granted	Method and apparatus for signaling paging configurations and channel state information reference signal (CSI-RS) configurations	ATIS.3GPP.36.211V1240-2015
EP2661935	Great Britain	Granted	Method and apparatus for signaling paging configurations and channel state information reference signal (CSI-RS) configurations	ATIS.3GPP.36.211V1240-2015
4642/CHENP/2013	India	Pending	Method and apparatus for signaling paging configurations and channel state information reference signal (CSI-RS) configurations	ATIS.3GPP.36.211V1240-2015
5823536	Japan	Granted	Method and apparatus for signaling paging configurations and channel state information reference signal (CSI-RS) configurations	ATIS.3GPP.36.211V1240-2015
5956012	Japan	Granted	Method and apparatus for signaling paging configurations and channel state information reference signal (CSI-RS) configurations	ATIS.3GPP.36.211V1240-2015
10-1506455	Republic of Korea	Granted	Method and apparatus for signaling paging configurations and channel state information reference signal (CSI-RS) configurations	ATIS.3GPP.36.211V1240-2015
13/371,407	United States	Pending	Mobility procedures in wireless networks with distributed remote radio heads	ATIS.3GPP.36.214V870-2010
201280008712.7	China P.R.	Pending	Selecting antenna ports for reference signal based on mobility and CSI feedback in wireless networks with distributed remote radio heads	ATIS.3GPP.36.214V870-2010
12707416.9	European Patent Convention	Pending	Selecting antenna ports for reference signal based on mobility and CSI feedback in wireless networks with distributed remote radio heads	ATIS.3GPP.36.214V870-2010
5714/CHENP/2013	India	Pending	Selecting antenna ports for reference signal based on mobility and CSI feedback in wireless networks with distributed remote radio heads	ATIS.3GPP.36.214V870-2010
2013-554529	Japan	Pending	Selecting antenna ports for reference signal based on mobility and CSI feedback in wireless networks with distributed remote radio heads	ATIS.3GPP.36.214V870-2010
10-2013-7024589	Republic of Korea	Pending	Selecting antenna ports for reference signal based on mobility and CSI feedback in wireless networks with distributed remote radio heads	ATIS.3GPP.36.214V870-2010
10-2016-7011709	Republic of Korea	Pending	Selecting antenna ports for reference signal based on mobility and CSI feedback in wireless networks with distributed remote radio heads	ATIS.3GPP.36.214V870-2010
13/372,458	United States	Pending	Power control and user multiplexing for heterogeneous network coordinated multipoint operations	ATIS.3GPP.36.211V1240-2015
BR1120130205970	Brazil	Pending	Power control and user multiplexing for heterogeneous network coordinated multipoint operations	ATIS.3GPP.36.211V1240-2015
201280008714.6	China P.R.	Pending	Power control and user multiplexing for heterogeneous network coordinated multipoint operations	ATIS.3GPP.36.211V1240-2015
201510849724.8	China P.R.	Pending	Power control and user multiplexing for heterogeneous network coordinated multipoint operations	ATIS.3GPP.36.211V1240-2015
EP2676379	Germany	Granted	Power control and user multiplexing for heterogeneous network coordinated multipoint operations	ATIS.3GPP.36.211V1240-2015
EP2676379	European Patent Convention	Granted	Power control and user multiplexing for heterogeneous network coordinated multipoint operations	ATIS.3GPP.36.211V1240-2015

16183738.0	European Patent Convention	Pending	Power control and user multiplexing for heterogeneous network coordinated multipoint operations	ATIS.3GPP.36.211V1240-2015
16183739.8	European Patent Convention	Pending	Power control and user multiplexing for heterogeneous network coordinated multipoint operations	ATIS.3GPP.36.211V1240-2015
EP2676379	Spain	Granted	Power control and user multiplexing for heterogeneous network coordinated multipoint operations	ATIS.3GPP.36.211V1240-2015
EP2676379	Finland	Granted	Power control and user multiplexing for heterogeneous network coordinated multipoint operations	ATIS.3GPP.36.211V1240-2015
EP2676379	France	Granted	Power control and user multiplexing for heterogeneous network coordinated multipoint operations	ATIS.3GPP.36.211V1240-2015
EP2676379	Great Britain	Granted	Power control and user multiplexing for heterogeneous network coordinated multipoint operations	ATIS.3GPP.36.211V1240-2015
EP2676379	Hungary	Granted	Power control and user multiplexing for heterogeneous network coordinated multipoint operations	ATIS.3GPP.36.211V1240-2015
6075/CHENP/2013	India	Pending	Power control and user multiplexing for heterogeneous network coordinated multipoint operations	ATIS.3GPP.36.211V1240-2015
EP2676379	Italy	Granted	Power control and user multiplexing for heterogeneous network coordinated multipoint operations	ATIS.3GPP.36.211V1240-2015
5731018	Japan	Granted	Power control and user multiplexing for heterogeneous network coordinated multipoint operations	ATIS.3GPP.36.211V1240-2015
10-1602227	Republic of Korea	Granted	Power control and user multiplexing for heterogeneous network coordinated multipoint operations	ATIS.3GPP.36.211V1240-2015
10-2015-7007955	Republic of Korea	Pending	Power control and user multiplexing for heterogeneous network coordinated multipoint operations	ATIS.3GPP.36.211V1240-2015
10-2015-7007960	Republic of Korea	Pending	Power control and user multiplexing for heterogeneous network coordinated multipoint operations	ATIS.3GPP.36.211V1240-2015
EP2676379	Netherlands	Granted	Power control and user multiplexing for heterogeneous network coordinated multipoint operations	ATIS.3GPP.36.211V1240-2015
EP2676379	Turkey	Granted	Power control and user multiplexing for heterogeneous network coordinated multipoint operations	ATIS.3GPP.36.211V1240-2015
I492648	Taiwan	Granted	Power control and user multiplexing for heterogeneous network coordinated multipoint operations	ATIS.3GPP.36.211V1240-2015
104102859	Taiwan	Pending	Power control and user multiplexing for heterogeneous network coordinated multipoint operations	ATIS.3GPP.36.211V1240-2015
8,965,426	United States	Granted	Method and apparatus for intercell uplink interference control	ATIS.3GPP.25.321V8170-2014
201280014649.8	China P.R.	Pending	Method and apparatus for intercell uplink interference control	ATIS.3GPP.25.321V8170-2014
12706750.2	European Patent Convention	Pending	Method and apparatus for intercell uplink interference control	ATIS.3GPP.25.321V8170-2014
6197/CHENP/2013	India	Pending	Method and apparatus for intercell uplink interference control	ATIS.3GPP.25.321V8170-2014
5718486	Japan	Granted	Method and apparatus for intercell uplink interference control	ATIS.3GPP.25.321V8170-2014
10-1518351	Republic of Korea	Granted	Method and apparatus for intercell uplink interference control	ATIS.3GPP.25.321V8170-2014
8,965,426	United States	Granted	Method and apparatus for intercell uplink interference control	ATIS.3GPP.25.331V8250-2016
201280014649.8	China P.R.	Pending	Method and apparatus for intercell uplink interference control	ATIS.3GPP.25.331V8250-2016
12706750.2	European Patent Convention	Pending	Method and apparatus for intercell uplink interference control	ATIS.3GPP.25.331V8250-2016

6197/CHENP/2013	India	Pending	Method and apparatus for intercell uplink interference control	ATIS.3GPP.25.331V8250-2016
5718486	Japan	Granted	Method and apparatus for intercell uplink interference control	ATIS.3GPP.25.331V8250-2016
10-1518351	Republic of Korea	Granted	Method and apparatus for intercell uplink interference control	ATIS.3GPP.25.331V8250-2016
13/360,348	United States	Pending	Implicitly linking aperiodic channel state information (A-CSI) reports to CSI-reference signal (CSI-RS) resources	ATIS.3GPP.36.213V1240-2015
201280008170.3	China P.R.	Pending	Implicitly linking aperiodic channel state information (A-CSI) reports to CSI-reference signal (CSI-RS) resources	ATIS.3GPP.36.213V1240-2015
201610607745.3	China P.R.	Pending	Implicitly linking aperiodic channel state information (A-CSI) reports to CSI-reference signal (CSI-RS) resources	ATIS.3GPP.36.213V1240-2015
12702402.4	European Patent Convention	Pending	Implicitly linking aperiodic channel state information (A-CSI) reports to CSI-reference signal (CSI-RS) resources	ATIS.3GPP.36.213V1240-2015
6183/CHENP/2013	India	Pending	Implicitly linking aperiodic channel state information (A-CSI) reports to CSI-reference signal (CSI-RS) resources	ATIS.3GPP.36.213V1240-2015
5763219	Japan	Granted	Implicitly linking aperiodic channel state information (A-CSI) reports to CSI-reference signal (CSI-RS) resources	ATIS.3GPP.36.213V1240-2015
10-2013-7024904	Republic of Korea	Pending	Implicitly linking aperiodic channel state information (A-CSI) reports to CSI-reference signal (CSI-RS) resources	ATIS.3GPP.36.213V1240-2015
10-2015-7025985	Republic of Korea	Pending	Implicitly linking aperiodic channel state information (A-CSI) reports to CSI-reference signal (CSI-RS) resources	ATIS.3GPP.36.213V1240-2015
13/427,818	United States	Pending	System and method for network provisioning of mobile entities for peer-to-peer service	ATIS.3GPP.24.334V1211-2016
BR1120130241861	Brazil	Pending	System and method for network provisioning of mobile entities for peer-to-peer service	ATIS.3GPP.24.334V1211-2016
201280021142.5	China P.R.	Pending	System and method for network provisioning of mobile entities for peer-to-peer service	ATIS.3GPP.24.334V1211-2016
12713509.3	European Patent Convention	Pending	System and method for network provisioning of mobile entities for peer-to-peer service	ATIS.3GPP.24.334V1211-2016
7822/CHENP/2013	India	Pending	System and method for network provisioning of mobile entities for peer-to-peer service	ATIS.3GPP.24.334V1211-2016
2014-501272	Japan	Pending	System and method for network provisioning of mobile entities for peer-to-peer service	ATIS.3GPP.24.334V1211-2016
5989852	Japan	Granted	System and method for network provisioning of mobile entities for peer-to-peer service	ATIS.3GPP.24.334V1211-2016
10-1584952	Republic of Korea	Granted	System and method for network provisioning of mobile entities for peer-to-peer service	ATIS.3GPP.24.334V1211-2016
1484798	Taiwan	Granted	System and method for network provisioning of mobile entities for peer-to-peer service	ATIS.3GPP.24.334V1211-2016
8,792,875	United States	Granted	Restricting access of a wireless communication device to a communication channel	ATIS.3GPP.44.018V8170-2014
201280023494.4	China P.R.	Pending	Restricting access of a wireless communication device to a communication channel	ATIS.3GPP.44.018V8170-2014
12715524.0	European Patent Convention	Pending	Restricting access of a wireless communication device to a communication channel	ATIS.3GPP.44.018V8170-2014

7535/CHENP/2013	India	Pending	Restricting access of a wireless communication device to a communication channel	ATIS.3GPP.44.018V8170-2014
2014-504054	Japan	Pending	Restricting access of a wireless communication device to a communication channel	ATIS.3GPP.44.018V8170-2014
10-1482181	Republic of Korea	Granted	Restricting access of a wireless communication device to a communication channel	ATIS.3GPP.44.018V8170-2014
13/438,109	United States	Pending	System and method for supporting concurrent deployment of multiple transmission time intervals for uplink transmissions by user equipment in a non-dedicated channel state	ATIS.3GPP.25.331V8250-2016
BR1120130257288	Brazil	Pending	System and method for supporting concurrent deployment of multiple transmission time intervals for uplink transmissions by user equipment in a non-dedicated channel state	ATIS.3GPP.25.331V8250-2016
201280023773.0	China P.R.	Pending	System and method for supporting concurrent deployment of multiple transmission time intervals for uplink transmissions by user equipment in a non-dedicated channel state	ATIS.3GPP.25.331V8250-2016
12714484.8	European Patent Convention	Pending	System and method for supporting concurrent deployment of multiple transmission time intervals for uplink transmissions by user equipment in a non-dedicated channel state	ATIS.3GPP.25.331V8250-2016
7576/CHENP/2013	India	Pending	System and method for supporting concurrent deployment of multiple transmission time intervals for uplink transmissions by user equipment in a non-dedicated channel state	ATIS.3GPP.25.331V8250-2016
5872674	Japan	Granted	System and method for supporting concurrent deployment of multiple transmission time intervals for uplink transmissions by user equipment in a non-dedicated channel state	ATIS.3GPP.25.331V8250-2016
10-1623459	Republic of Korea	Granted	System and method for supporting concurrent deployment of multiple transmission time intervals for uplink transmissions by user equipment in a non-dedicated channel state	ATIS.3GPP.25.331V8250-2016
13/440,875	United States	Pending	Signaling whether a network has broadcast system information	ATIS.3GPP.44.018V8170-2014
BR1120130253509	Brazil	Pending	Signaling whether a network has broadcast system information	ATIS.3GPP.44.018V8170-2014
201280017423.3	China P.R.	Pending	Signaling whether a network has broadcast system information	ATIS.3GPP.44.018V8170-2014
EP2700269	Germany	Granted	Signaling whether a network has broadcast system information	ATIS.3GPP.44.018V8170-2014
EP2700269	European Patent Convention	Granted	Signaling whether a network has broadcast system information	ATIS.3GPP.44.018V8170-2014
EP2700269	Spain	Granted	Signaling whether a network has broadcast system information	ATIS.3GPP.44.018V8170-2014
EP2700269	France	Granted	Signaling whether a network has broadcast system information	ATIS.3GPP.44.018V8170-2014
EP2700269	Great Britain	Granted	Signaling whether a network has broadcast system information	ATIS.3GPP.44.018V8170-2014
7832/CHENP/2013	India	Pending	Signaling whether a network has broadcast system information	ATIS.3GPP.44.018V8170-2014
EP2700269	Italy	Granted	Signaling whether a network has broadcast system information	ATIS.3GPP.44.018V8170-2014
5813857	Japan	Granted	Signaling whether a network has broadcast system information	ATIS.3GPP.44.018V8170-2014
10-1547551	Republic of Korea	Granted	Signaling whether a network has broadcast system information	ATIS.3GPP.44.018V8170-2014
EP2700269	Netherlands	Granted	Signaling whether a network has broadcast system information	ATIS.3GPP.44.018V8170-2014
I469662	Taiwan	Granted	Signaling whether a network has broadcast system information	ATIS.3GPP.44.018V8170-2014
9,294,235	United States	Granted	Methods and apparatuses for user equipment-based enhancements of radio link control for multi-point wireless transmission	ATIS.3GPP.25.322V890-2012

BR1120130308176	Brazil	Pending	Methods and apparatuses for user equipment-based enhancements of radio link control for multi-point wireless transmission	ATIS.3GPP.25.322V890-2012
2838245	Canada	Pending	Methods and apparatuses for user equipment-based enhancements of radio link control for multi-point wireless transmission	ATIS.3GPP.25.322V890-2012
201280027942.8	China P.R.	Pending	Methods and apparatuses for user equipment-based enhancements of radio link control for multi-point wireless transmission	ATIS.3GPP.25.322V890-2012
12727088.2	European Patent Convention	Pending	Methods and apparatuses for user equipment-based enhancements of radio link control for multi-point wireless transmission	ATIS.3GPP.25.322V890-2012
9130/CHENP/2013	India	Pending	Methods and apparatuses for user equipment-based enhancements of radio link control for multi-point wireless transmission	ATIS.3GPP.25.322V890-2012
5820063	Japan	Granted	Methods and apparatuses for user equipment-based enhancements of radio link control for multi-point wireless transmission	ATIS.3GPP.25.322V890-2012
10-1609342	Republic of Korea	Granted	Methods and apparatuses for user equipment-based enhancements of radio link control for multi-point wireless transmission	ATIS.3GPP.25.322V890-2012
2592068	Russian Federation	Granted	Methods and apparatuses for user equipment-based enhancements of radio link control for multi-point wireless transmission	ATIS.3GPP.25.322V890-2012
9,160,513	United States	Granted	Method and apparatus for signaling control data of aggregated carriers	ATIS.3GPP.36.213V1240-2015
ZL201280037763.2	China P.R.	Granted	Method and apparatus for signaling control data of aggregated carriers	ATIS.3GPP.36.213V1240-2015
12743855.4	European Patent Convention	Pending	Method and apparatus for signaling control data of aggregated carriers	ATIS.3GPP.36.213V1240-2015
240/CHENP/2014	India	Pending	Method and apparatus for signaling control data of aggregated carriers	ATIS.3GPP.36.213V1240-2015
5784835	Japan	Granted	Method and apparatus for signaling control data of aggregated carriers	ATIS.3GPP.36.213V1240-2015
10-1616256	Republic of Korea	Granted	Method and apparatus for signaling control data of aggregated carriers	ATIS.3GPP.36.213V1240-2015
13/454,512	United States	Pending	Apparatus and methods for facilitating cell reselection for higher priority layers	ATIS.3GPP.25.133V8200-2016
BR1120130324546	Brazil	Pending	Apparatus and methods for facilitating cell reselection for higher priority layers	ATIS.3GPP.25.133V8200-2016
2839143	Canada	Pending	Apparatus and methods for facilitating cell reselection for higher priority layers	ATIS.3GPP.25.133V8200-2016
201280030651.4	China P.R.	Pending	Apparatus and methods for facilitating cell reselection for higher priority layers	ATIS.3GPP.25.133V8200-2016
12733309.4	European Patent Convention	Pending	Apparatus and methods for facilitating cell reselection for higher priority layers	ATIS.3GPP.25.133V8200-2016
10122/CHENP/2013	India	Pending	Apparatus and methods for facilitating cell reselection for higher priority layers	ATIS.3GPP.25.133V8200-2016
5770934	Japan	Granted	Apparatus and methods for facilitating cell reselection for higher priority layers	ATIS.3GPP.25.133V8200-2016
10-1565297	Republic of Korea	Granted	Apparatus and methods for facilitating cell reselection for higher priority layers	ATIS.3GPP.25.133V8200-2016
2581775	Russian Federation	Granted	Apparatus and methods for facilitating cell reselection for higher priority layers	ATIS.3GPP.25.133V8200-2016
8,761,068	United States	Granted	Supporting DL triggered HS-DPCCH in a cell in CELL_FACH	ATIS.3GPP.25.321V8170-2014
BR1120140035121	Brazil	Pending	Supporting downlink, DL, triggered CQI feedback on the HS-DPCCH channel in a cell in cell_fach state	ATIS.3GPP.25.321V8170-2014

2844496	Canada	Granted	Supporting downlink, DL, triggered CQI feedback on the HS-DPCCH channel in a cell in cell f ach state	ATIS.3GPP.25.321V8170-2014
ZL201280039899.7	China P.R.	Granted	Supporting downlink, DL, triggered CQI feedback on the HS-DPCCH channel in a cell in cell f ach state	ATIS.3GPP.25.321V8170-2014
12751227.5	European Patent Convention	Pending	Supporting downlink, DL, triggered CQI feedback on the HS-DPCCH channel in a cell in cell f ach state	ATIS.3GPP.25.321V8170-2014
126/MUMNP/2014	India	Pending	Supporting downlink, DL, triggered CQI feedback on the HS-DPCCH channel in a cell in cell f ach state	ATIS.3GPP.25.321V8170-2014
5619329	Japan	Granted	Supporting downlink, DL, triggered CQI feedback on the HS-DPCCH channel in a cell in cell f ach state	ATIS.3GPP.25.321V8170-2014
10-1451333	Republic of Korea	Granted	Supporting downlink, DL, triggered CQI feedback on the HS-DPCCH channel in a cell in cell f ach state	ATIS.3GPP.25.321V8170-2014
2544758	Russian Federation	Granted	Supporting downlink, DL, triggered CQI feedback on the HS-DPCCH channel in a cell in cell f ach state	ATIS.3GPP.25.321V8170-2014
9,008,582	United States	Granted	User equipment enhancements for cooperative multi-point communication	ATIS.3GPP.36.213V1240-2015
201280040225.9	China P.R.	Pending	Method and apparatus for user equipment enhancements for cooperative multi-point communication	ATIS.3GPP.36.213V1240-2015
12770521.8	European Patent Convention	Pending	User equipment enhancements for cooperative multi-point communication	ATIS.3GPP.36.213V1240-2015
391/CHENP/2014	India	Pending	User equipment enhancements for cooperative multi-point communication	ATIS.3GPP.36.213V1240-2015
5980926	Japan	Granted	User equipment enhancements for cooperative multi-point communication	ATIS.3GPP.36.213V1240-2015
10-1537290	Republic of Korea	Granted	User equipment enhancements for cooperative multi-point communication	ATIS.3GPP.36.213V1240-2015
9,055,596	United States	Granted	Methods and apparatuses for selectively resetting and transferring a wireless communication channel	ATIS.3GPP.25.331V8250-2016
BR1120140129592	Brazil	Pending	Methods and apparatuses for selectively resetting and transferring a wireless communication channel	ATIS.3GPP.25.331V8250-2016
201280058458.1	China P.R.	Pending	Methods and apparatuses for selectively resetting and transferring a wireless communication channel	ATIS.3GPP.25.331V8250-2016
12805847.6	European Patent Convention	Pending	Methods and apparatuses for selectively resetting and transferring a wireless communication channel	ATIS.3GPP.25.331V8250-2016
3905/CHENP/2014	India	Pending	Methods and apparatuses for selectively resetting and transferring a wireless communication channel	ATIS.3GPP.25.331V8250-2016
2014-544950	Japan	Pending	Methods and apparatuses for selectively resetting and transferring a wireless communication channel	ATIS.3GPP.25.331V8250-2016
10-1625564	Republic of Korea	Granted	Methods and apparatuses for selectively resetting and transferring a wireless communication channel	ATIS.3GPP.25.331V8250-2016
13/677,156	United States	Pending	Method and apparatus for physical layer measurements in multicast broadcast multimedia service systems	ATIS.3GPP.36.331V8210-2016
201280066540.9	China P.R.	Pending	Method and apparatus for physical layer measurements in MBMS systems	ATIS.3GPP.36.331V8210-2016
12798090.2	European Patent Convention	Pending	Method and apparatus for physical layer measurements in MBMS systems	ATIS.3GPP.36.331V8210-2016
3587/CHENP/2014	India	Pending	Method and apparatus for physical layer measurements in MBMS systems	ATIS.3GPP.36.331V8210-2016
2014-542452	Japan	Pending	Method and apparatus for physical layer measurements in MBMS systems	ATIS.3GPP.36.331V8210-2016
10-2014-7016569	Republic of Korea	Pending	Method and apparatus for physical layer measurements in MBMS systems	ATIS.3GPP.36.331V8210-2016
8,934,326	United States	Granted	Reference signal detection	ATIS.3GPP.36.213V1240-2015

14/450,157	United States	Pending	Reference signal detection	ATIS.3GPP.36.213V1240-2015
ZL201280060425.0	China P.R.	Granted	Reference signal detection	ATIS.3GPP.36.213V1240-2015
201610368113.6	China P.R.	Pending	Reference signal detection	ATIS.3GPP.36.213V1240-2015
12725181.7	European Patent Convention	Pending	Reference signal detection	ATIS.3GPP.36.213V1240-2015
3366/CHENP/2014	India	Pending	Reference signal detection	ATIS.3GPP.36.213V1240-2015
5833251	Japan	Granted	Reference signal detection	ATIS.3GPP.36.213V1240-2015
2015-148883	Japan	Pending	Reference signal detection	ATIS.3GPP.36.213V1240-2015
10-1618291	Republic of Korea	Granted	Reference signal detection	ATIS.3GPP.36.213V1240-2015
10-2016-7011176	Republic of Korea	Pending	Reference signal detection	ATIS.3GPP.36.213V1240-2015
13/672,148	United States	Pending	METHOD AND APPARATUS FOR SENDING CHANNEL STATE INFORMATION USING SUBFRAME - DEPENDENT CONTROL CHANNEL FORMAT	ATIS.3GPP.36.213V1240-2015
9,344,875	United States	Granted	Systems, apparatus, and methods for managing information in a smart storage device	ATIS.3GPP.31.111V8140-2014
AP/P/2015/008481	A.R.I.P.O.	Pending	Systems, apparatus, and methods for managing information in a smart storage device	ATIS.3GPP.31.111V8140-2014
BR1120150115330	Brazil	Pending	Systems, apparatus, and methods for managing information in a smart storage device	ATIS.3GPP.31.111V8140-2014
201380059002.1	China P.R.	Pending	Systems, apparatus, and methods for managing information in a smart storage device	ATIS.3GPP.31.111V8140-2014
15141130	Colombia	Pending	Systems, apparatus, and methods for managing information in a smart storage device	ATIS.3GPP.31.111V8140-2014
15/084,427	United States	Pending	Systems, apparatus, and methods for managing information in a smart storage device	ATIS.3GPP.31.111V8140-2014
201590980	Eurasian Patent Convention	Pending	Systems, apparatus, and methods for managing information in a smart storage device	ATIS.3GPP.31.111V8140-2014
IEPI-2015-26404	Ecuador	Pending	Systems, apparatus, and methods for managing information in a smart storage device	ATIS.3GPP.31.111V8140-2014
PCT755/2015	Egypt	Pending	Systems, apparatus, and methods for managing information in a smart storage device	ATIS.3GPP.31.111V8140-2014
13818862.8	European Patent Convention	Pending	Systems, apparatus, and methods for managing information in a smart storage device	ATIS.3GPP.31.111V8140-2014
2113/CHENP/2015	India	Pending	Systems, apparatus, and methods for managing information in a smart storage device	ATIS.3GPP.31.111V8140-2014
2015-542759	Japan	Pending	Systems, apparatus, and methods for managing information in a smart storage device	ATIS.3GPP.31.111V8140-2014
10-2015-7016141	Republic of Korea	Pending	Systems, apparatus, and methods for managing information in a smart storage device	ATIS.3GPP.31.111V8140-2014
38108	Morocco	Pending	Systems, apparatus, and methods for managing information in a smart storage device	ATIS.3GPP.31.111V8140-2014
F/P/2015/140	Nigeria	Granted	Systems, apparatus, and methods for managing information in a smart storage device	ATIS.3GPP.31.111V8140-2014
1201500181	O.A.P.I	Pending	Systems, apparatus, and methods for managing information in a smart storage device	ATIS.3GPP.31.111V8140-2014

515360447	Saudi Arabia	Pending	Systems, apparatus, and methods for managing information in a smart storage device	ATIS.3GPP.31.111V8140-2014
I505739	Taiwan	Granted	Systems, apparatus, and methods for managing information in a smart storage device	ATIS.3GPP.31.111V8140-2014
IAP20150243	Uzbekistan	Pending	Systems, apparatus, and methods for managing information in a smart storage device	ATIS.3GPP.31.111V8140-2014
9,137,717	United States	Granted	Method and apparatus for managing mobility events in a dual-frequency dual-cell wireless communication network	ATIS.3GPP.25.331V8250-2016
BR1120140171220	Brazil	Pending	Method and apparatus for managing mobility events in a dual-frequency dual-cell wireless communication network	ATIS.3GPP.25.331V8250-2016
201380005316.3	China P.R.	Pending	Method and apparatus for managing mobility events in a dual-frequency dual-cell wireless communication network	ATIS.3GPP.25.331V8250-2016
13702127.5	European Patent Convention	Pending	Method and apparatus for managing mobility events in a dual-frequency dual-cell wireless communication network	ATIS.3GPP.25.331V8250-2016
1589/MUMNP/2014	India	Pending	Method and apparatus for managing mobility events in a dual-frequency dual-cell wireless communication network	ATIS.3GPP.25.331V8250-2016
2014-552321	Japan	Pending	Method and apparatus for managing mobility events in a dual-frequency dual-cell wireless communication network	ATIS.3GPP.25.331V8250-2016
10-2014-7022406	Republic of Korea	Pending	Method and apparatus for managing mobility events in a dual-frequency dual-cell wireless communication network	ATIS.3GPP.25.331V8250-2016
13/676,961	United States	Pending	Downlink control information (DCI) design for low cost devices	ATIS.3GPP.36.212V1230-2015
201280055157.3	China P.R.	Pending	Downlink control information for low cost devices	ATIS.3GPP.36.212V1230-2015
12794835.4	European Patent Convention	Pending	Downlink control information for low cost devices	ATIS.3GPP.36.212V1230-2015
1124/MUMNP/2014	India	Pending	Downlink control information for low cost devices	ATIS.3GPP.36.212V1230-2015
2014-542442	Japan	Pending	Downlink control information for low cost devices	ATIS.3GPP.36.212V1230-2015
10-2014-7015549	Republic of Korea	Pending	Downlink control information for low cost devices	ATIS.3GPP.36.212V1230-2015
10-2016-7014088	Republic of Korea	Pending	Downlink control information for low cost devices	ATIS.3GPP.36.212V1230-2015
9,094,988	United States	Granted	Method and apparatus for performing random access on a secondary carrier	ATIS.3GPP.36.331V8210-2016
201380005579.4	China P.R.	Pending	Method and apparatus for performing random access on a secondary carrier	ATIS.3GPP.36.331V8210-2016
13701548.3	European Patent Convention	Pending	Method and apparatus for performing random access on a secondary carrier	ATIS.3GPP.36.331V8210-2016
4776/CHENP/2014	India	Pending	Method and apparatus for performing random access on a secondary carrier	ATIS.3GPP.36.331V8210-2016
5992538	Japan	Granted	Method and apparatus for performing random access on a secondary carrier	ATIS.3GPP.36.331V8210-2016
10-1627115	Republic of Korea	Granted	Method and apparatus for performing random access on a secondary carrier	ATIS.3GPP.36.331V8210-2016
9,374,253	United States	Granted	DM-RS based decoding using CSI-RS-based timing	ATIS.3GPP.36.213V1240-2015
BR1120140161704	Brazil	Pending	DM-RS based decoding using CSI-RS-based timing	ATIS.3GPP.36.213V1240-2015
201380005253.1	China P.R.	Pending	DM-RS based decoding using CSI-RS-based timing	ATIS.3GPP.36.213V1240-2015
13701185.4	European Patent Convention	Pending	DM-RS based decoding using CSI-RS-based timing	ATIS.3GPP.36.213V1240-2015
1216/MUMNP/2014	India	Pending	DM-RS based decoding using CSI-RS-based timing	ATIS.3GPP.36.213V1240-2015
2014-552316	Japan	Pending	DM-RS based decoding using CSI-RS-based timing	ATIS.3GPP.36.213V1240-2015
10-2014-7021927	Republic of Korea	Pending	DM-RS based decoding using CSI-RS-based timing	ATIS.3GPP.36.213V1240-2015
13/753,213	United States	Pending	Flexible radio resource management (RRM) measurements for wireless networks	ATIS.3GPP.36.214V870-2010

201380006951.3	China P.R.	Pending	Flexible radio resource management (RRM) measurements for wireless networks	ATIS.3GPP.36.214V870-2010
13703293.4	European Patent Convention	Pending	Flexible radio resource management (RRM) measurements for wireless networks	ATIS.3GPP.36.214V870-2010
1392/MUMNP/2014	India	Pending	Flexible radio resource management (RRM) measurements for wireless networks	ATIS.3GPP.36.214V870-2010
2014-554948	Japan	Pending	Flexible radio resource management (RRM) measurements for wireless networks	ATIS.3GPP.36.214V870-2010
10-2014-7023555	Republic of Korea	Pending	Flexible radio resource management (RRM) measurements for wireless networks	ATIS.3GPP.36.214V870-2010
201380007008.4	China P.R.	Pending	Method and apparatus for channel fallback in enhanced cell forward access channel dedicated channel	ATIS.3GPP.25.331V8250-2016
13704683.5	European Patent Convention	Pending	Method and apparatus for channel fallback in enhanced cell forward access channel dedicated channel	ATIS.3GPP.25.331V8250-2016
4807/CHENP/2014	India	Pending	Method and apparatus for channel fallback in enhanced cell forward access channel dedicated channel	ATIS.3GPP.25.331V8250-2016
2014-554978	Japan	Pending	Method and apparatus for channel fallback in enhanced cell forward access channel dedicated channel	ATIS.3GPP.25.331V8250-2016
10-2014-7024029	Republic of Korea	Pending	Method and apparatus for channel fallback in enhanced cell forward access channel dedicated channel	ATIS.3GPP.25.331V8250-2016
13/756,938	United States	Pending	Managing downlink and uplink resources for low cost user equipments	ATIS.3GPP.36.213V1240-2015
201380018577.9	China P.R.	Pending	Managing downlink and uplink resources for low cost user equipments	ATIS.3GPP.36.213V1240-2015
13704335.2	European Patent Convention	Pending	Managing downlink and uplink resources for low cost user equipments	ATIS.3GPP.36.213V1240-2015
9,055,604	United States	Granted	Method and apparatus for E-TFC selection for uplink MIMO communication	ATIS.3GPP.25.321V8170-2014
201380008209.6	China P.R.	Pending	Method and apparatus for E-TFC selection for uplink MIMO communication	ATIS.3GPP.25.321V8170-2014
13705891.3	European Patent Convention	Pending	Method and apparatus for E-TFC selection for uplink MIMO communication	ATIS.3GPP.25.321V8170-2014
4952/CHENP/2014	India	Pending	Method and apparatus for E-TFC selection for uplink MIMO communication	ATIS.3GPP.25.321V8170-2014
2014-556722	Japan	Pending	Method and apparatus for E-TFC selection for uplink MIMO communication	ATIS.3GPP.25.321V8170-2014
10-2014-7025013	Republic of Korea	Pending	Method and apparatus for E-TFC selection for uplink MIMO communication	ATIS.3GPP.25.321V8170-2014
13/760,561	United States	Pending	Method and apparatus for enhancing resource allocation for uplink MIMO communication	ATIS.3GPP.25.321V8170-2014
201380008243.3	China P.R.	Pending	Method and apparatus for enhancing resource allocation for uplink MIMO communication	ATIS.3GPP.25.321V8170-2014
13710638.1	European Patent Convention	Pending	Method and apparatus for enhancing resource allocation for uplink MIMO communication	ATIS.3GPP.25.321V8170-2014
5076/CHENP/2014	India	Pending	Method and apparatus for enhancing resource allocation for uplink MIMO communication	ATIS.3GPP.25.321V8170-2014
2014-556725	Japan	Pending	Method and apparatus for enhancing resource allocation for uplink MIMO communication	ATIS.3GPP.25.321V8170-2014
10-2014-7025010	Republic of Korea	Pending	Method and apparatus for enhancing resource allocation for uplink MIMO communication	ATIS.3GPP.25.321V8170-2014
13/771,852	United States	Pending	Method and apparatus for mitigation of false packet decodes due to early decoding	ATIS.3GPP.25.212V880-2016

9,295,056	United States	Granted	Systems and methods for signaling and determining transmission time interval bundling parameters	ATIS.3GPP.36.212V1230-2015
201380015392.2	China P.R.	Pending	Systems and methods for signaling and determining transmission time interval bundling parameters	ATIS.3GPP.36.212V1230-2015
13714148.7	European Patent Convention	Pending	Systems and methods for signaling and determining transmission time interval bundling parameters	ATIS.3GPP.36.212V1230-2015
1898/MUMNP/2014	India	Pending	Systems and methods for signaling and determining transmission time interval bundling parameters	ATIS.3GPP.36.212V1230-2015
9,198,071	United States	Granted	Channel state information reference signal configuring and reporting for a coordinated multi-point transmission scheme	ATIS.3GPP.36.133V1260-2015
201380014822.9	China P.R.	Pending	Channel state information reference signal configuring and reporting for a coordinated multi-point transmission scheme	ATIS.3GPP.36.133V1260-2015
13712623.1	European Patent Convention	Pending	Channel state information reference signal configuring and reporting for a coordinated multi-point transmission scheme	ATIS.3GPP.36.133V1260-2015
5947/CHENP/2014.	India	Pending	Channel state information reference signal configuring and reporting for a coordinated multi-point transmission scheme	ATIS.3GPP.36.133V1260-2015
5981021	Japan	Granted	Channel state information reference signal configuring and reporting for a coordinated multi-point transmission scheme	ATIS.3GPP.36.133V1260-2015
9,198,071	United States	Granted	Channel state information reference signal configuring and reporting for a coordinated multi-point transmission scheme	ATIS.3GPP.36.213V1240-2015
201380014822.9	China P.R.	Pending	Channel state information reference signal configuring and reporting for a coordinated multi-point transmission scheme	ATIS.3GPP.36.213V1240-2015
13712623.1	European Patent Convention	Pending	Channel state information reference signal configuring and reporting for a coordinated multi-point transmission scheme	ATIS.3GPP.36.213V1240-2015
5947/CHENP/2014.	India	Pending	Channel state information reference signal configuring and reporting for a coordinated multi-point transmission scheme	ATIS.3GPP.36.213V1240-2015
5981021	Japan	Granted	Channel state information reference signal configuring and reporting for a coordinated multi-point transmission scheme	ATIS.3GPP.36.213V1240-2015
13/836,711	United States	Pending	Synchronization channel design for new carrier type	ATIS.3GPP.36.211V1240-2015
13/793,587	United States	Pending	Methods and apparatus for uplink power control	ATIS.3GPP.36.213V1240-2015
201380014089.0	China P.R.	Pending	Methods and apparatus for uplink power control	ATIS.3GPP.36.213V1240-2015
2015-501725	Japan	Pending	Methods and apparatus for uplink power control	ATIS.3GPP.36.213V1240-2015
9,320,062	United States	Granted	Communication in a heterogeneous network with carrier aggregation	ATIS.3GPP.36.300V8120-2010
201380018851.2	China P.R.	Pending	Communication in a heterogeneous network with carrier aggregation	ATIS.3GPP.36.300V8120-2010
15/015,906	United States	Pending	Communication in a heterogeneous network with carrier aggregation	ATIS.3GPP.36.300V8120-2010
13719643.2	European Patent Convention	Pending	Communication in a heterogeneous network with carrier aggregation	ATIS.3GPP.36.300V8120-2010
15175503.0	European Patent Convention	Pending	Communication in a heterogeneous network with carrier aggregation	ATIS.3GPP.36.300V8120-2010
6716/CHENP/2014	India	Pending	Communication in a heterogeneous network with carrier aggregation	ATIS.3GPP.36.300V8120-2010
2015-507028	Japan	Pending	Communication in a heterogeneous network with carrier aggregation	ATIS.3GPP.36.300V8120-2010

10-2014-7028411	Republic of Korea	Pending	Communication in a heterogeneous network with carrier aggregation	ATIS.3GPP.36.300V8120-2010
-	United States	Granted	Methods and apparatus for TDD reconfiguration	ATIS.3GPP.36.213V1240-2015
201380021956.3	China P.R.	Pending	Methods and apparatus for TDD reconfiguration	ATIS.3GPP.36.213V1240-2015
13720739.5	European Patent Convention	Pending	Methods and apparatus for TDD reconfiguration	ATIS.3GPP.36.213V1240-2015
2023/MUMNP/2014	India	Pending	Methods and apparatus for TDD reconfiguration	ATIS.3GPP.36.213V1240-2015
13/894,874	United States	Pending	Methods and apparatus for subframe configuration for wireless networks	ATIS.3GPP.36.213V1240-2015
201380024236.2	China P.R.	Pending	Methods and apparatus for subframe configuration for wireless networks	ATIS.3GPP.36.213V1240-2015
13724698.9	European Patent Convention	Pending	Methods and apparatus for subframe configuration for wireless networks	ATIS.3GPP.36.213V1240-2015
7453/CHENP/2014	India	Pending	Methods and apparatus for subframe configuration for wireless networks	ATIS.3GPP.36.213V1240-2015
2015-512833	Japan	Pending	Methods and apparatus for subframe configuration for wireless networks	ATIS.3GPP.36.213V1240-2015
10-2014-7034202	Republic of Korea	Pending	Methods and apparatus for subframe configuration for wireless networks	ATIS.3GPP.36.213V1240-2015
13/896,139	United States	Pending	Narrow band partitioning and efficient resource allocation for low cost user equipments	ATIS.3GPP.36.212V1230-2015
201380032480.3	China P.R.	Pending	Narrow band partitioning and efficient resource allocation for low cost user equipments	ATIS.3GPP.36.212V1230-2015
13727717.4	European Patent Convention	Pending	Narrow band partitioning and efficient resource allocation for low cost user equipments	ATIS.3GPP.36.212V1230-2015
8559/CHEN/2014	India	Pending	Narrow band partitioning and efficient resource allocation for low cost user equipments	ATIS.3GPP.36.212V1230-2015
10-2014-7034404	Republic of Korea	Pending	Narrow band partitioning and efficient resource allocation for low cost user equipments	ATIS.3GPP.36.212V1230-2015
9,084,152	United States	Granted	Methods and apparatuses for providing inter-radio-network-controller multiframe capability	ATIS.3GPP.25.423V8140-2016
201380024220.1	China P.R.	Pending	Methods and apparatuses for providing inter-radio-network-controller multiframe capability	ATIS.3GPP.25.423V8140-2016
13724480.2	European Patent Convention	Pending	Methods and apparatuses for providing inter-radio-network-controller multiframe capability	ATIS.3GPP.25.423V8140-2016
2046/MUMNP/2014	India	Pending	Methods and apparatuses for providing inter-radio-network-controller multiframe capability	ATIS.3GPP.25.423V8140-2016
2015-511710	Japan	Pending	Methods and apparatuses for providing inter-radio-network-controller multiframe capability	ATIS.3GPP.25.423V8140-2016
9,084,152	United States	Granted	Methods and apparatuses for providing inter-radio-network-controller multiframe capability	ATIS.3GPP.25.433V8140-2016
201380024220.1	China P.R.	Pending	Methods and apparatuses for providing inter-radio-network-controller multiframe capability	ATIS.3GPP.25.433V8140-2016
13724480.2	European Patent Convention	Pending	Methods and apparatuses for providing inter-radio-network-controller multiframe capability	ATIS.3GPP.25.433V8140-2016
2046/MUMNP/2014	India	Pending	Methods and apparatuses for providing inter-radio-network-controller multiframe capability	ATIS.3GPP.25.433V8140-2016
2015-511710	Japan	Pending	Methods and apparatuses for providing inter-radio-network-controller multiframe capability	ATIS.3GPP.25.433V8140-2016
9,380,490	United States	Granted	System and method for uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014

13/924,522	United States	Pending	Data transmission in carrier aggregation with different carrier configurations	ATIS.3GPP.36.213V1240-2015
BR1120140317461	Brazil	Pending	Transmission in combined TDD and FDD carrier aggregation	ATIS.3GPP.36.213V1240-2015
201380032487.5	China P.R.	Pending	Transmission in combined TDD and FDD carrier aggregation	ATIS.3GPP.36.213V1240-2015
13734267.1	European Patent Convention	Pending	Transmission in combined TDD and FDD carrier aggregation	ATIS.3GPP.36.213V1240-2015
2374/MUMNP/2014	India	Pending	Transmission in combined TDD and FDD carrier aggregation	ATIS.3GPP.36.213V1240-2015
2015-518632	Japan	Pending	Transmission in combined TDD and FDD carrier aggregation	ATIS.3GPP.36.213V1240-2015
10-2015-7001410	Republic of Korea	Pending	Transmission in combined TDD and FDD carrier aggregation	ATIS.3GPP.36.213V1240-2015
14/410,506	United States	Pending	Subframe configurations for LTE TDD systems	ATIS.3GPP.36.211V1240-2015
201380040059.7	China P.R.	Pending	Subframe configurations for LTE TDD systems	ATIS.3GPP.36.211V1240-2015
13825298.6	European Patent Convention	Pending	Subframe configurations for LTE TDD systems	ATIS.3GPP.36.211V1240-2015
2015-524625	Japan	Pending	Subframe configurations for LTE TDD systems	ATIS.3GPP.36.211V1240-2015
10-2015-7004706	Republic of Korea	Pending	Subframe configurations for LTE TDD systems	ATIS.3GPP.36.211V1240-2015
14/410,506	United States	Pending	Subframe configurations for LTE TDD systems	ATIS.3GPP.36.213V1240-2015
201380040059.7	China P.R.	Pending	Subframe configurations for LTE TDD systems	ATIS.3GPP.36.213V1240-2015
13825298.6	European Patent Convention	Pending	Subframe configurations for LTE TDD systems	ATIS.3GPP.36.213V1240-2015
2015-524625	Japan	Pending	Subframe configurations for LTE TDD systems	ATIS.3GPP.36.213V1240-2015
10-2015-7004706	Republic of Korea	Pending	Subframe configurations for LTE TDD systems	ATIS.3GPP.36.213V1240-2015
9,408,125	United States	Granted	AGGREGATION OF DATA BEARERS FOR CARRIER AGGREGATION	ATIS.3GPP.36.300V8120-2010
16/2015	United Arab Emirates	Pending	Aggregation of data bearers for carrier aggregation	ATIS.3GPP.36.300V8120-2010
BR1120150001629	Brazil	Pending	Aggregation of data bearers for carrier aggregation	ATIS.3GPP.36.300V8120-2010
15/208,499	United States	Pending	AGGREGATION OF DATA BEARERS FOR CARRIER AGGREGATION	ATIS.3GPP.36.300V8120-2010
2877965	Canada	Pending	Aggregation of data bearers for carrier aggregation	ATIS.3GPP.36.300V8120-2010
201380035444.2	China P.R.	Pending	Aggregation of data bearers for carrier aggregation	ATIS.3GPP.36.300V8120-2010
15107009.7	Hong Kong	Pending	Aggregation of data bearers for carrier aggregation	ATIS.3GPP.36.300V8120-2010
13741911.5	European Patent Convention	Pending	Aggregation of data bearers for carrier aggregation	ATIS.3GPP.36.300V8120-2010
P-00201408337	Indonesia	Pending	Aggregation of data bearers for carrier aggregation	ATIS.3GPP.36.300V8120-2010
236002	Israel	Pending	Aggregation of data bearers for carrier aggregation	ATIS.3GPP.36.300V8120-2010
8608/CHENP/2014	India	Pending	Aggregation of data bearers for carrier aggregation	ATIS.3GPP.36.300V8120-2010

2015-520678	Japan	Pending	Aggregation of data bearers for carrier aggregation	ATIS.3GPP.36.300V8120-2010
10-2014-7036741	Republic of Korea	Pending	Aggregation of data bearers for carrier aggregation	ATIS.3GPP.36.300V8120-2010
2015103703	Russian Federation	Pending	Aggregation of data bearers for carrier aggregation	ATIS.3GPP.36.300V8120-2010
1401007906	Thailand	Pending	Aggregation of data bearers for carrier aggregation	ATIS.3GPP.36.300V8120-2010
I545974	Taiwan	Granted	Aggregation of data bearers for carrier aggregation	ATIS.3GPP.36.300V8120-2010
2015/00821	South Africa	Pending	Aggregation of data bearers for carrier aggregation	ATIS.3GPP.36.300V8120-2010
14/249,050	United States	Pending	Packet-level splitting for data transmission via multiple carriers	ATIS.3GPP.36.300V8120-2010
1376/2015	United Arab Emirates	Pending	Packet-level splitting for data transmission via multiple carriers	ATIS.3GPP.36.300V8120-2010
BR1120150258778	Brazil	Pending	Packet-level splitting for data transmission via multiple carriers	ATIS.3GPP.36.300V8120-2010
2907928	Canada	Pending	Packet-level splitting for data transmission via multiple carriers	ATIS.3GPP.36.300V8120-2010
201480020529.8	China P.R.	Pending	Packet-level splitting for data transmission via multiple carriers	ATIS.3GPP.36.300V8120-2010
16102048.0	Hong Kong	Pending	Packet-level splitting for data transmission via multiple carriers	ATIS.3GPP.36.300V8120-2010
14724922.1	European Patent Convention	Pending	Packet-level splitting for data transmission via multiple carriers	ATIS.3GPP.36.300V8120-2010
P-00201506988	Indonesia	Pending	Packet-level splitting for data transmission via multiple carriers	ATIS.3GPP.36.300V8120-2010
5324/CHENP/2015	India	Pending	Packet-level splitting for data transmission via multiple carriers	ATIS.3GPP.36.300V8120-2010
2016-507658	Japan	Pending	Packet-level splitting for data transmission via multiple carriers	ATIS.3GPP.36.300V8120-2010
10-2015-7032215	Republic of Korea	Pending	Packet-level splitting for data transmission via multiple carriers	ATIS.3GPP.36.300V8120-2010
1-2015-502220	Philippines	Pending	Packet-level splitting for data transmission via multiple carriers	ATIS.3GPP.36.300V8120-2010
2015143051	Russian Federation	Pending	Packet-level splitting for data transmission via multiple carriers	ATIS.3GPP.36.300V8120-2010
1501006254	Thailand	Pending	Packet-level splitting for data transmission via multiple carriers	ATIS.3GPP.36.300V8120-2010
103113443	Taiwan	Pending	Packet-level splitting for data transmission via multiple carriers	ATIS.3GPP.36.300V8120-2010
2015/08311	South Africa	Pending	Packet-level splitting for data transmission via multiple carriers	ATIS.3GPP.36.300V8120-2010
13/920,036	United States	Pending	Network information for assisting user equipment	ATIS.3GPP.36.213V1240-2015
201380031742.4	China P.R.	Pending	Network information for assisting user equipment	ATIS.3GPP.36.213V1240-2015
13732346.5	European Patent Convention	Pending	Network information for assisting user equipment	ATIS.3GPP.36.213V1240-2015
8789/CHENP/2014	India	Pending	Network information for assisting user equipment	ATIS.3GPP.36.213V1240-2015
2015-518512	Japan	Pending	Network information for assisting user equipment	ATIS.3GPP.36.213V1240-2015
10-2015-7001107	Republic of Korea	Pending	Network information for assisting user equipment	ATIS.3GPP.36.213V1240-2015
13/923,067	United States	Pending	Techniques for joint support of coordinated multipoint (CoMP) operations and carrier aggregation (CA)	ATIS.3GPP.36.213V1240-2015
201380031487.3	China P.R.	Pending	Techniques for joint support of coordinated multipoint (CoMP) operations and carrier aggregation (CA)	ATIS.3GPP.36.213V1240-2015
2015-518595	Japan	Pending	Techniques for joint support of coordinated multipoint (CoMP) operations and carrier aggregation (CA)	ATIS.3GPP.36.213V1240-2015
9,264,997	United States	Granted	Apparatus and methods of energy efficient communication	ATIS.3GPP.36.213V1240-2015
201380035427.9	China P.R.	Pending	Apparatus and methods of energy efficient communication	ATIS.3GPP.36.213V1240-2015

13734284.6	European Patent Convention	Pending	Apparatus and methods of energy efficient communication	ATIS.3GPP.36.213V1240-2015
2456/MUMNP/2014	India	Pending	Apparatus and methods of energy efficient communication	ATIS.3GPP.36.213V1240-2015
5992618	Japan	Granted	Apparatus and methods of energy efficient communication	ATIS.3GPP.36.213V1240-2015
10-2015-7002698	Republic of Korea	Pending	Apparatus and methods of energy efficient communication	ATIS.3GPP.36.213V1240-2015
I520536	Taiwan	Granted	Apparatus and methods of energy efficient communication system design	ATIS.3GPP.36.213V1240-2015
13/952,521	United States	Pending	Differentiating measurement reporting mechanism	ATIS.3GPP.36.331V8210-2016
201380040298.2	China P.R.	Pending	Differentiating measurement reporting mechanism	ATIS.3GPP.36.331V8210-2016
13752964.0	European Patent Convention	Pending	Differentiating measurement reporting mechanism	ATIS.3GPP.36.331V8210-2016
204/MUMNP/2015	India	Pending	Differentiating measurement reporting mechanism	ATIS.3GPP.36.331V8210-2016
2015-525495	Japan	Pending	Differentiating measurement reporting mechanism	ATIS.3GPP.36.331V8210-2016
10-2015-7004021	Republic of Korea	Pending	Differentiating measurement reporting mechanism	ATIS.3GPP.36.331V8210-2016
9,294,958	United States	Granted	Method and apparatus for dynamically configuring a cell update message	ATIS.3GPP.25.331V8250-2016
201380038343.0	China P.R.	Pending	Method and apparatus for dynamically configuring a cell update message	ATIS.3GPP.25.331V8250-2016
13742792.8	European Patent Convention	Pending	Method and apparatus for dynamically configuring a cell update message	ATIS.3GPP.25.331V8250-2016
2578/MUMNP/2014	India	Pending	Method and apparatus for dynamically configuring a cell update message	ATIS.3GPP.25.331V8250-2016
2015-523216	Japan	Pending	Method and apparatus for dynamically configuring a cell update message	ATIS.3GPP.25.331V8250-2016
9,445,410	United States	Granted	Communicating with an enhanced new carrier type	ATIS.3GPP.36.213V1240-2015
BR1120150019943	Brazil	Pending	Communicating with an enhanced new carrier type for energy saving	ATIS.3GPP.36.213V1240-2015
201380040512.4	China P.R.	Pending	Communicating with an enhanced new carrier type for energy saving	ATIS.3GPP.36.213V1240-2015
15/239,711	United States	Pending	Communicating with an enhanced new carrier type	ATIS.3GPP.36.213V1240-2015
13752731.3	European Patent Convention	Pending	Communicating with an enhanced new carrier type for energy saving	ATIS.3GPP.36.213V1240-2015
66/MUMNP/2015	India	Pending	Communicating with an enhanced new carrier type for energy saving	ATIS.3GPP.36.213V1240-2015
2015-525634	Japan	Pending	Communicating with an enhanced new carrier type for energy saving	ATIS.3GPP.36.213V1240-2015
10-2015-7005265	Republic of Korea	Pending	Communicating with an enhanced new carrier type for energy saving	ATIS.3GPP.36.213V1240-2015
I538455	Taiwan	Granted	Communicating with an enhanced new carrier type	ATIS.3GPP.36.213V1240-2015
13/956,829	United States	Pending	Method and apparatus for sounding reference signal triggering and power control for coordinated multi-point operations	ATIS.3GPP.36.213V1240-2015
201380039849.3	China P.R.	Pending	Method and apparatus for sounding reference signal triggering and power control for coordinated multi-point operations	ATIS.3GPP.36.213V1240-2015
13752722.2	European Patent Convention	Pending	Method and apparatus for sounding reference signal triggering and power control for coordinated multi-point operations	ATIS.3GPP.36.213V1240-2015
2583/MUMNP/2014	India	Pending	Method and apparatus for sounding reference signal triggering and power control for coordinated multi-point operations	ATIS.3GPP.36.213V1240-2015
9,137,812	United States	Granted	Apparatus and methods for improving performance in multi-flow communication	ATIS.3GPP.25.212V880-2016
201380040836.8	China P.R.	Pending	Apparatus and methods for configuring CQI and HARQ feedback in multi-flow communication	ATIS.3GPP.25.212V880-2016
13750787.7	European Patent Convention	Pending	Apparatus and methods for configuring CQI and HARQ feedback in multi-flow communication	ATIS.3GPP.25.212V880-2016
2581/MUMNP/2014	India	Pending	Apparatus and methods for configuring CQI and HARQ feedback in multi-flow communication	ATIS.3GPP.25.212V880-2016
8,929,475	United States	Granted	System and method for uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014

BR1120150024572	Brazil	Pending	System and method for uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
201380040772.1	China P.R.	Pending	System and method for uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
13750993.1	European Patent Convention	Pending	System and method for uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
138/MUMNP/2015	India	Pending	System and method for uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
2015-525630	Japan	Pending	System and method for uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
10-2015-7005310	Republic of Korea	Pending	System and method for uplink multiple input multiple output transmission	ATIS.3GPP.25.321V8170-2014
14/429,766	United States	Pending	Enhanced uplink and downlink power control for LTE TDD EIMTA	ATIS.3GPP.36.213V1240-2015
201280076265.9	China P.R.	Pending	Enhanced uplink and downlink power control for LTE TDD EIMTA	ATIS.3GPP.36.213V1240-2015
12886421.2	European Patent Convention	Pending	Enhanced uplink and downlink power control for LTE TDD EIMTA	ATIS.3GPP.36.213V1240-2015
864/MUMNP/2015	India	Pending	Enhanced uplink and downlink power control for LTE TDD EIMTA	ATIS.3GPP.36.213V1240-2015
2015-534897	Japan	Pending	Enhanced uplink and downlink power control for LTE TDD EIMTA	ATIS.3GPP.36.213V1240-2015
10-2015-7011690	Republic of Korea	Pending	Enhanced uplink and downlink power control for LTE TDD EIMTA	ATIS.3GPP.36.213V1240-2015
14/429,766	United States	Pending	Enhanced uplink and downlink power control for LTE TDD EIMTA	ATIS.3GPP.36.331V8210-2016
201280076265.9	China P.R.	Pending	Enhanced uplink and downlink power control for LTE TDD EIMTA	ATIS.3GPP.36.331V8210-2016
12886421.2	European Patent Convention	Pending	Enhanced uplink and downlink power control for LTE TDD EIMTA	ATIS.3GPP.36.331V8210-2016
864/MUMNP/2015	India	Pending	Enhanced uplink and downlink power control for LTE TDD EIMTA	ATIS.3GPP.36.331V8210-2016
2015-534897	Japan	Pending	Enhanced uplink and downlink power control for LTE TDD EIMTA	ATIS.3GPP.36.331V8210-2016
10-2015-7011690	Republic of Korea	Pending	Enhanced uplink and downlink power control for LTE TDD EIMTA	ATIS.3GPP.36.331V8210-2016
-	United States	Granted	Resource allocation for the coexistence of peer discovery and legacy LTE traffic	ATIS.3GPP.36.213V1240-2015
201480009605.5	China P.R.	Pending	Resource allocation for the coexistence of peer discovery and legacy LTE traffic	ATIS.3GPP.36.213V1240-2015
14710095.2	European Patent Convention	Pending	Resource allocation for the coexistence of peer discovery and legacy LTE traffic	ATIS.3GPP.36.213V1240-2015
4368/CHENP/2015	India	Pending	Resource allocation for the coexistence of peer discovery and legacy LTE traffic	ATIS.3GPP.36.213V1240-2015
2015-558908	Japan	Pending	Resource allocation for the coexistence of peer discovery and legacy LTE traffic	ATIS.3GPP.36.213V1240-2015
10-2015-7026589	Republic of Korea	Pending	Resource allocation for the coexistence of peer discovery and legacy LTE traffic	ATIS.3GPP.36.213V1240-2015
-	United States	Granted	Resource allocation for the coexistence of peer discovery and legacy LTE traffic	ATIS.3GPP.36.331V8210-2016
201480009605.5	China P.R.	Pending	Resource allocation for the coexistence of peer discovery and legacy LTE traffic	ATIS.3GPP.36.331V8210-2016
14710095.2	European Patent Convention	Pending	Resource allocation for the coexistence of peer discovery and legacy LTE traffic	ATIS.3GPP.36.331V8210-2016
4368/CHENP/2015	India	Pending	Resource allocation for the coexistence of peer discovery and legacy LTE traffic	ATIS.3GPP.36.331V8210-2016
2015-558908	Japan	Pending	Resource allocation for the coexistence of peer discovery and legacy LTE traffic	ATIS.3GPP.36.331V8210-2016
10-2015-7026589	Republic of Korea	Pending	Resource allocation for the coexistence of peer discovery and legacy LTE traffic	ATIS.3GPP.36.331V8210-2016
9,226,290	United States	Granted	Multiple timing advance groups (TAGs) for UL carrier aggregation (CA)	ATIS.3GPP.36.331V8210-2016
BR1120150029442	Brazil	Pending	Multiple timing advance groups (TAGs)for UL carrier aggregation (CA)	ATIS.3GPP.36.331V8210-2016
201380043058.8	China P.R.	Pending	Multiple timing advance groups (TAGs)for UL carrier aggregation (CA)	ATIS.3GPP.36.331V8210-2016
13756226.0	European Patent Convention	Pending	Multiple timing advance groups (TAGs)for UL carrier aggregation (CA)	ATIS.3GPP.36.331V8210-2016
171/MUMNP/2015	India	Pending	Multiple timing advance groups (TAGs)for UL carrier aggregation (CA)	ATIS.3GPP.36.331V8210-2016
2015-527677	Japan	Pending	Multiple timing advance groups (TAGs)for UL carrier aggregation (CA)	ATIS.3GPP.36.331V8210-2016
10-2015-7006559	Republic of Korea	Pending	Multiple timing advance groups (TAGs)for UL carrier aggregation (CA)	ATIS.3GPP.36.331V8210-2016
13/797,765	United States	Pending	Interactions between RAN-based and legacy WLAN mobility	ATIS.3GPP.36.300V8120-2010
201380044679.8	China P.R.	Pending	Interactions between ran-based and legacy wlan mobility	ATIS.3GPP.36.300V8120-2010
13748449.9	European Patent Convention	Pending	Interactions between ran-based and legacy wlan mobility	ATIS.3GPP.36.300V8120-2010

145/MUMNP/2015	India	Pending	Interactions between ran-based and legacy wlan mobility	ATIS.3GPP.36.300V8120-2010
13/875,677	United States	Pending	Method and apparatus for device to device relay selection	ATIS.3GPP.36.331V8210-2016
201480022845.9	China P.R.	Pending	Method and apparatus for device to device relay selection	ATIS.3GPP.36.331V8210-2016
14731093.2	European Patent Convention	Pending	Method and apparatus for device to device relay selection	ATIS.3GPP.36.331V8210-2016
5817/CHENP/2015	India	Pending	Method and apparatus for device to device relay selection	ATIS.3GPP.36.331V8210-2016
2016-511798	Japan	Pending	Method and apparatus for device to device relay selection	ATIS.3GPP.36.331V8210-2016
13/937,126	United States	Pending	Multiband eMBMS enhancement using carrier aggregation	ATIS.3GPP.36.306V890-2014
13/767,757	United States	Pending	Joint scheduling of device-to-device (D2D) links and wide area network (WAN) uplink (UL) user equipments (UEs)	ATIS.3GPP.36.213V1240-2015
14/764,394	United States	Pending	3D MIMO CSI feedback based on virtual elevation ports	ATIS.3GPP.36.213V1240-2015
BR1120150180248	Brazil	Pending	3D MIMO CSI feedback based on virtual elevation ports	ATIS.3GPP.36.213V1240-2015
201480006350.7	China P.R.	Pending	3D MIMO CSI feedback based on virtual elevation ports	ATIS.3GPP.36.213V1240-2015
14746148.7	European Patent Convention	Pending	3D MIMO CSI feedback based on virtual elevation ports	ATIS.3GPP.36.213V1240-2015
1662/MUMNP/2015	India	Pending	3D MIMO CSI feedback based on virtual elevation ports	ATIS.3GPP.36.213V1240-2015
2015-555581	Japan	Pending	3D MIMO CSI feedback based on virtual elevation ports	ATIS.3GPP.36.213V1240-2015
10-2015-7023034	Republic of Korea	Pending	3D MIMO CSI feedback based on virtual elevation ports	ATIS.3GPP.36.213V1240-2015
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10-2015-7014531	Republic of Korea	Pending	Enhanced new carrier type in wireless communication systems	ATIS.3GPP.36.211V1240-2015
I517609	Taiwan	Granted	Method and apparatus for enhanced new carrier type in wireless communication systems	ATIS.3GPP.36.211V1240-2015
104139722	Taiwan	Pending	Method and apparatus for enhanced new carrier type in wireless communication systems	ATIS.3GPP.36.211V1240-2015
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3144/CHENP/2015	India	Pending	Enhanced new carrier type in wireless communication systems	ATIS.3GPP.36.213V1240-2015
10-2015-7014531	Republic of Korea	Pending	Enhanced new carrier type in wireless communication systems	ATIS.3GPP.36.213V1240-2015
I517609	Taiwan	Granted	Method and apparatus for enhanced new carrier type in wireless communication systems	ATIS.3GPP.36.213V1240-2015
104139722	Taiwan	Pending	Method and apparatus for enhanced new carrier type in wireless communication systems	ATIS.3GPP.36.213V1240-2015
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201380051558.6	China P.R.	Pending	Processing PMCH/PRS and EPDCCH in LTE	ATIS.3GPP.36.213V1240-2015
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BR1120150055800	Brazil	Pending	Transport of control protocol for trusted WLAN (TWAN) offload	ATIS.3GPP.24.244V1210-2016
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I538446	Taiwan	Granted	Transport of control protocol for trusted WLAN (TWAN) offload	ATIS.3GPP.24.244V1210-2016
105106144	Taiwan	Pending	Transport of control protocol for trusted WLAN (TWAN) offload	ATIS.3GPP.24.244V1210-2016
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201380058582.2	China P.R.	Pending	Transmission of uplink control channels to multiple nodes	ATIS.3GPP.36.213V1240-2015
15135531	Colombia	Pending	Transmission of uplink control channels to multiple nodes	ATIS.3GPP.36.213V1240-2015
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13771259.2	European Patent Convention	Pending	EPDCCH resource and quasi-co-location management in LTE	ATIS.3GPP.36.331V8210-2016
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515360376	Saudi Arabia	Pending	EPDCCH resource and quasi-co-location management in LTE	ATIS.3GPP.36.331V8210-2016
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201480007972.1	China P.R.	Pending	Single-frequency network (SFN) operation for machine-type communications (MTC) coverage enhancements	ATIS.3GPP.36.211V1240-2015
14707290.4	European Patent Convention	Pending	Single-frequency network (SFN) operation for machine-type communications (MTC) coverage enhancements	ATIS.3GPP.36.211V1240-2015
16168358.6	European Patent Convention	Pending	Single-frequency network (SFN) operation for machine-type communications (MTC) coverage enhancements	ATIS.3GPP.36.211V1240-2015
1780/MUMNP/2015	India	Pending	Single-frequency network (SFN) operation for machine-type communications (MTC) coverage enhancements	ATIS.3GPP.36.211V1240-2015
2015-557228	Japan	Pending	Single-frequency network (SFN) operation for machine-type communications (MTC) coverage enhancements	ATIS.3GPP.36.211V1240-2015
10-2015-7023674	Republic of Korea	Pending	Single-frequency network (SFN) operation for machine-type communications (MTC) coverage enhancements	ATIS.3GPP.36.211V1240-2015
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201480007972.1	China P.R.	Pending	Single-frequency network (SFN) operation for machine-type communications (MTC) coverage enhancements	ATIS.3GPP.36.213V1240-2015
14707290.4	European Patent Convention	Pending	Single-frequency network (SFN) operation for machine-type communications (MTC) coverage enhancements	ATIS.3GPP.36.213V1240-2015
16168358.6	European Patent Convention	Pending	Single-frequency network (SFN) operation for machine-type communications (MTC) coverage enhancements	ATIS.3GPP.36.213V1240-2015
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201480019146.9	China P.R.	Pending	Management of communications with multiple access points based on inter-access point communications	ATIS.3GPP.36.423V890-2010
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2519/MUMNP/2015	India	Pending	Management of communications with multiple access points based on inter-access point communications	ATIS.3GPP.36.423V890-2010

2016-506333	Japan	Pending	Management of communications with multiple access points based on inter-access point communications	ATIS.3GPP.36.423V890-2010
10-2015-7030788	Republic of Korea	Pending	Management of communications with multiple access points based on inter-access point communications	ATIS.3GPP.36.423V890-2010
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2917794	Canada	Pending	Power efficient discovery of LTE-direct relay for out-of-coverage devices	ATIS.3GPP.24.334V1211-2016
201480040930.8	China P.R.	Pending	Power efficient discovery of LTE-direct relay for out-of-coverage devices	ATIS.3GPP.24.334V1211-2016
14748425.7	European Patent Convention	Pending	Power efficient discovery of LTE-direct relay for out-of-coverage devices	ATIS.3GPP.24.334V1211-2016
P-00201600974	Indonesia	Pending	Power efficient discovery of LTE-direct relay for out-of-coverage devices	ATIS.3GPP.24.334V1211-2016
201647002333	India	Pending	Power efficient discovery of LTE-direct relay for out-of-coverage devices	ATIS.3GPP.24.334V1211-2016
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201647002332	India	Pending	Managing a multimedia broadcast multicast service using an MBMS relay device	ATIS.3GPP.24.334V1211-2016
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14750849.3	European Patent Convention	Pending	Continuing multimedia broadcast multicast services for out-of-coverage devices	ATIS.3GPP.24.334V1211-2016
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201480011835.5	China P.R.	Pending	Systems and methods for enhanced MIMO operation	ATIS.3GPP.36.212V1230-2015
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10-2015-7033781	Republic of Korea	Pending	Method for policy control and charging for D2D services	ATIS.3GPP.24.333V1210-2016
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201480024710.6	China P.R.	Pending	Method for policy control and charging for D2D services	ATIS.3GPP.24.334V1211-2016
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5113/CHENP/2015	India	Pending	Methods and apparatus for transmission restriction and efficient signaling	ATIS.3GPP.36.213V1240-2015
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5113/CHENP/2015	India	Pending	Methods and apparatus for transmission restriction and efficient signaling	ATIS.3GPP.36.331V8210-2016
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2016-507651	Japan	Pending	Precoder resource bundling information for interference cancellation in LTE	ATIS.3GPP.36.213V1240-2015
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201480019160.9	China P.R.	Pending	Physical broadcast channel (PBCH) coverage enhancements for machine type communications (MTC)	ATIS.3GPP.36.211V1240-2015
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2016-506676	Japan	Pending	Physical broadcast channel (PBCH) coverage enhancements for machine type communications (MTC)	ATIS.3GPP.36.211V1240-2015
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201647004385	India	Pending	INTER-RAT AND INTRA-RAT SMALL CELL RESELECTION	ATIS.3GPP.25.304V8120-2012
2016-543927	Japan	Pending	INTER-RAT AND INTRA-RAT SMALL CELL RESELECTION	ATIS.3GPP.25.304V8120-2012
10-2016-7007502	Republic of Korea	Pending	INTER-RAT AND INTRA-RAT SMALL CELL RESELECTION	ATIS.3GPP.25.304V8120-2012
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BR1120160061055	Brazil	Pending	INTER-RAT AND INTRA-RAT SMALL CELL RESELECTION	ATIS.3GPP.36.304V8100-2012
201480051730.2	China P.R.	Pending	INTER-RAT AND INTRA-RAT SMALL CELL RESELECTION	ATIS.3GPP.36.304V8100-2012
14776938.4	European Patent Convention	Pending	INTER-RAT AND INTRA-RAT SMALL CELL RESELECTION	ATIS.3GPP.36.304V8100-2012
201647004385	India	Pending	INTER-RAT AND INTRA-RAT SMALL CELL RESELECTION	ATIS.3GPP.36.304V8100-2012
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201480048616.4	China P.R.	Pending	Resource allocation for distributed device-to-device synchronization	ATIS.3GPP.36.213V1240-2015
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P-00201602054	Indonesia	Pending	Resource allocation for distributed device-to-device synchronization	ATIS.3GPP.36.213V1240-2015
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2016-540897	Japan	Pending	Resource allocation for distributed device-to-device synchronization	ATIS.3GPP.36.213V1240-2015
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10-2015-7031713	Republic of Korea	Pending	Methods and apparatus for employing multiple subframe configurations for HARQ operations	ATIS.3GPP.36.213V1240-2015
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2016-509104	Japan	Pending	Method and apparatus for configuring uplink and downlink serving cells in wireless communications	ATIS.3GPP.25.331V8250-2016
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2016-513192	Japan	Pending	Group bearer and bearer selection for multicast/broadcast data transmissions	ATIS.3GPP.36.300V8120-2010
10-2015-7034858	Republic of Korea	Pending	Group bearer and bearer selection for multicast/broadcast data transmissions	ATIS.3GPP.36.300V8120-2010
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201480025021.7	China P.R.	Pending	Signaling of enhanced power control for eIMTA interference mitigation	ATIS.3GPP.36.213V1240-2015
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6016/CHENP/2015	India	Pending	Signaling of enhanced power control for eIMTA interference mitigation	ATIS.3GPP.36.213V1240-2015
2016-512217	Japan	Pending	Signaling of enhanced power control for eIMTA interference mitigation	ATIS.3GPP.36.213V1240-2015
10-2015-7033269	Republic of Korea	Pending	Signaling of enhanced power control for eIMTA interference mitigation	ATIS.3GPP.36.213V1240-2015
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2016-512217	Japan	Pending	Signaling of enhanced power control for eIMTA interference mitigation	ATIS.3GPP.36.331V8210-2016

10-2015-7033269	Republic of Korea	Pending	Signaling of enhanced power control for eIMTA interference mitigation	ATIS.3GPP.36.331V8210-2016
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2909671	Canada	Pending	Techniques for selecting subframe type or for interleaving signals for wireless communications over unlicensed spectrum	ATIS.3GPP.36.211V1240-2015
201480029456.9	China P.R.	Pending	Techniques for selecting subframe type or for interleaving signals for wireless communications over unlicensed spectrum	ATIS.3GPP.36.211V1240-2015
16102369.1	Hong Kong	Pending	Techniques for selecting subframe type or for interleaving signals for wireless communications over unlicensed spectrum	ATIS.3GPP.36.211V1240-2015
14735716.4	European Patent Convention	Pending	Techniques for selecting subframe type or for interleaving signals for wireless communications over unlicensed spectrum	ATIS.3GPP.36.211V1240-2015
P-00201508057	Indonesia	Pending	Techniques for selecting subframe type or for interleaving signals for wireless communications over unlicensed spectrum	ATIS.3GPP.36.211V1240-2015
242222	Israel	Pending	Techniques for selecting subframe type or for interleaving signals for wireless communications over unlicensed spectrum	ATIS.3GPP.36.211V1240-2015
6472/CHENP/2015	India	Pending	Techniques for selecting subframe type or for interleaving signals for wireless communications over unlicensed spectrum	ATIS.3GPP.36.211V1240-2015
2016-515014	Japan	Pending	Techniques for selecting subframe type or for interleaving signals for wireless communications over unlicensed spectrum	ATIS.3GPP.36.211V1240-2015
10-2015-7034032	Republic of Korea	Pending	Techniques for selecting subframe type or for interleaving signals for wireless communications over unlicensed spectrum	ATIS.3GPP.36.211V1240-2015
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2015154436	Russian Federation	Pending	Techniques for selecting subframe type or for interleaving signals for wireless communications over unlicensed spectrum	ATIS.3GPP.36.211V1240-2015
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1501006926	Thailand	Pending	Techniques for selecting subframe type or for interleaving signals for wireless communications over unlicensed spectrum	ATIS.3GPP.36.211V1240-2015
201521534	Ukraine	Pending	Techniques for selecting subframe type or for interleaving signals for wireless communications over unlicensed spectrum	ATIS.3GPP.36.211V1240-2015
1-2015-04805	Vietnam	Pending	Methods and apparatuses for wireless communications, and non-transitory computer-readable medium storing instructions	ATIS.3GPP.36.211V1240-2015
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201480025772.9	China P.R.	Pending	Efficient downlink operation for EIMTA	ATIS.3GPP.36.213V1240-2015
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2016-512939	Japan	Pending	Efficient downlink operation for EIMTA	ATIS.3GPP.36.213V1240-2015
10-2015-7034621	Republic of Korea	Pending	Efficient downlink operation for EIMTA	ATIS.3GPP.36.213V1240-2015
14/275,942	United States	Pending	Channel state information (CSI) measurement and reporting for enhanced interference management for traffic adaptation (eIMTA) in LTE	ATIS.3GPP.36.213V1240-2015
201480026398.4	China P.R.	Pending	Channel state information (CSI) measurement and reporting for enhanced interference management for traffic adaptation (eIMTA) in LTE	ATIS.3GPP.36.213V1240-2015
14732694.6	European Patent Convention	Pending	Channel state information (CSI) measurement and reporting for enhanced interference management for traffic adaptation (eIMTA) in LTE	ATIS.3GPP.36.213V1240-2015
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10-2015-7035251	Republic of Korea	Pending	Channel state information (CSI) measurement and reporting for enhanced interference management for traffic adaptation (eIMTA) in LTE	ATIS.3GPP.36.213V1240-2015
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201480030701.8	China P.R.	Pending	Linear precoding in full-dimensional MIMO systems and dynamic vertical sectorization	ATIS.3GPP.36.213V1240-2015
14803412.7	European Patent Convention	Pending	Linear precoding in full-dimensional MIMO systems and dynamic vertical sectorization	ATIS.3GPP.36.213V1240-2015
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BR1120160172922	Brazil	Pending	Mixed size expression peer discovery in WWAN	ATIS.3GPP.36.213V1240-2015
201580006204.9	China P.R.	Pending	Mixed size expression peer discovery in WWAN	ATIS.3GPP.36.213V1240-2015
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14/281,805	United States	Pending	Methods for direct discovery in asynchronous network deployments	ATIS.3GPP.36.213V1240-2015
201480042711.3	China P.R.	Pending	Methods for direct discovery in asynchronous network deployments	ATIS.3GPP.36.213V1240-2015
14747457.1	European Patent Convention	Pending	Methods for direct discovery in asynchronous network deployments	ATIS.3GPP.36.213V1240-2015
P-00201600943	Indonesia	Pending	Methods for direct discovery in asynchronous network deployments	ATIS.3GPP.36.213V1240-2015
7769/CHENP/2015	India	Pending	Methods for direct discovery in asynchronous network deployments	ATIS.3GPP.36.213V1240-2015
2016-531624	Japan	Pending	Methods for direct discovery in asynchronous network deployments	ATIS.3GPP.36.213V1240-2015
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14747457.1	European Patent Convention	Pending	Methods for direct discovery in asynchronous network deployments	ATIS.3GPP.36.331V8210-2016
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P-00201600557	Indonesia	Pending	Trusted wireless local area network (WLAN) access scenarios	ATIS.3GPP.24.302V8100-2012
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10-2016-7001582	Republic of Korea	Pending	Trusted wireless local area network (WLAN) access scenarios	ATIS.3GPP.24.302V8100-2012
103123993	Taiwan	Pending	Trusted wireless local area network (WLAN) access scenarios	ATIS.3GPP.24.302V8100-2012
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76/2016	United Arab Emirates	Pending	Dynamic indication of time division duplex (TDD) uplink/downlink subframe configurations	ATIS.3GPP.36.213V1240-2015

2014299129	Australia	Pending	Dynamic indication of time division duplex (TDD) uplink/downlink subframe configurations	ATIS.3GPP.36.213V1240-2015
BR1120160016262	Brazil	Pending	Dynamic indication of time division duplex (TDD) uplink/downlink subframe configurations	ATIS.3GPP.36.213V1240-2015
2917428	Canada	Pending	Dynamic indication of time division duplex (TDD) uplink/downlink subframe configurations	ATIS.3GPP.36.213V1240-2015
00347-2016	Chile	Pending	Dynamic indication of time division duplex (TDD) uplink/downlink subframe configurations	ATIS.3GPP.36.213V1240-2015
201480042170.4	China P.R.	Pending	Dynamic indication of time division duplex (TDD) uplink/downlink subframe configurations	ATIS.3GPP.36.213V1240-2015
16110144.6	Hong Kong	Pending	Dynamic indication of time division duplex (TDD) uplink/downlink subframe configurations	ATIS.3GPP.36.213V1240-2015
PCT99/2016	Egypt	Pending	Dynamic indication of time division duplex (TDD) uplink/downlink subframe configurations	ATIS.3GPP.36.213V1240-2015
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P-00201600616	Indonesia	Pending	Dynamic indication of time division duplex (TDD) uplink/downlink subframe configurations	ATIS.3GPP.36.213V1240-2015
243158	Israel	Pending	Dynamic indication of time division duplex (TDD) uplink/downlink subframe configurations	ATIS.3GPP.36.213V1240-2015
3633/MUMNP/2015	India	Pending	Dynamic indication of time division duplex (TDD) uplink/downlink subframe configurations	ATIS.3GPP.36.213V1240-2015
2016-530323	Japan	Pending	Dynamic indication of time division duplex (TDD) uplink/downlink subframe configurations	ATIS.3GPP.36.213V1240-2015
10-2016-7005164	Republic of Korea	Pending	Dynamic indication of time division duplex (TDD) uplink/downlink subframe configurations	ATIS.3GPP.36.213V1240-2015
MX/a/2016/001175	Mexico	Pending	Dynamic indication of time division duplex (TDD) uplink/downlink subframe configurations	ATIS.3GPP.36.213V1240-2015
PI2015704661	Malaysia	Pending	Dynamic indication of time division duplex (TDD) uplink/downlink subframe configurations	ATIS.3GPP.36.213V1240-2015
NG/PT/C/2016/1734	Nigeria	Pending	Dynamic indication of time division duplex (TDD) uplink/downlink subframe configurations	ATIS.3GPP.36.213V1240-2015
716842	New Zealand	Pending	Dynamic indication of time division duplex (TDD) uplink/downlink subframe configurations	ATIS.3GPP.36.213V1240-2015
1-2016-500014	Philippines	Pending	Dynamic indication of time division duplex (TDD) uplink/downlink subframe configurations	ATIS.3GPP.36.213V1240-2015
2016102610	Russian Federation	Pending	Dynamic indication of time division duplex (TDD) uplink/downlink subframe configurations	ATIS.3GPP.36.213V1240-2015
516370483	Saudi Arabia	Pending	Dynamic indication of time division duplex (TDD) uplink/downlink subframe configurations	ATIS.3GPP.36.213V1240-2015
11201510320Q	Singapore	Pending	Dynamic indication of time division duplex (TDD) uplink/downlink subframe configurations	ATIS.3GPP.36.213V1240-2015
1601000461	Thailand	Pending	Dynamic indication of time division duplex (TDD) uplink/downlink subframe configurations	ATIS.3GPP.36.213V1240-2015

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BR1120160018702	Brazil	Pending	Connected mode design with bundling considerations	ATIS.3GPP.36.213V1240-2015
2917820	Canada	Pending	Connected mode design with bundling considerations	ATIS.3GPP.36.213V1240-2015
201480042491.4	China P.R.	Pending	Connected mode design with bundling considerations	ATIS.3GPP.36.213V1240-2015
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7770/CHENP/2015	India	Pending	Connected mode design with bundling considerations	ATIS.3GPP.36.213V1240-2015
2016-531809	Japan	Pending	Connected mode design with bundling considerations	ATIS.3GPP.36.213V1240-2015
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14/264,220	United States	Pending	Transmission time interval (TTI) bundling for physical downlink shared channel (PDSCH)	ATIS.3GPP.36.213V1240-2015
BR1120160015347	Brazil	Pending	Transmission time interval (TTI) bundling for physical downlink shared channel (PDSCH)	ATIS.3GPP.36.213V1240-2015
2917617	Canada	Pending	Transmission time interval (TTI) bundling for physical downlink shared channel (PDSCH)	ATIS.3GPP.36.213V1240-2015
201480041165.1	China P.R.	Pending	Transmission time interval (TTI) bundling for physical downlink shared channel (PDSCH)	ATIS.3GPP.36.213V1240-2015
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201480041772.8	China P.R.	Pending	TTI bundling for downlink control channels for machine type communications	ATIS.3GPP.36.213V1240-2015
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BR1120160026365	Brazil	Pending	Techniques for allocating user equipment processing capability among multiple access nodes	ATIS.3GPP.36.300V8120-2010
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2917825	Canada	Pending	Techniques for allocating user equipment processing capability among multiple access nodes	ATIS.3GPP.36.300V8120-2010
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P-00201600723	Indonesia	Pending	Techniques for allocating user equipment processing capability among multiple access nodes	ATIS.3GPP.36.300V8120-2010
201627001421	India	Pending	Techniques for allocating user equipment processing capability among multiple access nodes	ATIS.3GPP.36.300V8120-2010
2016-533325	Japan	Pending	Techniques for allocating user equipment processing capability among multiple access nodes	ATIS.3GPP.36.300V8120-2010
10-2016-7005802	Republic of Korea	Pending	Techniques for allocating user equipment processing capability among multiple access nodes	ATIS.3GPP.36.300V8120-2010
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BR1120160026365	Brazil	Pending	Techniques for allocating user equipment processing capability among multiple access nodes	ATIS.3GPP.36.331V8210-2016
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2917825	Canada	Pending	Techniques for allocating user equipment processing capability among multiple access nodes	ATIS.3GPP.36.331V8210-2016
201480044212.8	China P.R.	Pending	Techniques for allocating user equipment processing capability among multiple access nodes	ATIS.3GPP.36.331V8210-2016
14750910.3	European Patent Convention	Pending	Techniques for allocating user equipment processing capability among multiple access nodes	ATIS.3GPP.36.331V8210-2016
P-00201600723	Indonesia	Pending	Techniques for allocating user equipment processing capability among multiple access nodes	ATIS.3GPP.36.331V8210-2016
201627001421	India	Pending	Techniques for allocating user equipment processing capability among multiple access nodes	ATIS.3GPP.36.331V8210-2016
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2016-533305	Japan	Pending	Timing synchronization for device-to-device discovery for asynchronous LTE deployments	ATIS.3GPP.36.331V8210-2016
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201480044665.0	China P.R.	Pending	Method and apparatus for improving efficiency of traffic communication over a downlink (DL) channel	ATIS.3GPP.25.212V880-2016
15/093,648	United States	Pending	EFFICIENCY OF TRAFFIC COMMUNICATION OVER A DOWNLINK (DL) CHANNEL	ATIS.3GPP.25.212V880-2016
14755286.3	European Patent Convention	Pending	Method and apparatus for improving efficiency of traffic communication over a downlink (DL) channel	ATIS.3GPP.25.212V880-2016
P-00201601013	Indonesia	Pending	Method and apparatus for improving efficiency of traffic communication over a downlink (DL) channel	ATIS.3GPP.25.212V880-2016
3728/MUMNP/2015	India	Pending	Method and apparatus for improving efficiency of traffic communication over a downlink (DL) channel	ATIS.3GPP.25.212V880-2016
2016-533478	Japan	Pending	Method and apparatus for improving efficiency of traffic communication over a downlink (DL) channel	ATIS.3GPP.25.212V880-2016
10-2016-7006068	Republic of Korea	Pending	Method and apparatus for improving efficiency of traffic communication over a downlink (DL) channel	ATIS.3GPP.25.212V880-2016
14/910,567	United States	Pending	PUCCH RESOURCE MAPPING AND HARQ-ACK FEEDBACK	ATIS.3GPP.36.213V1240-2015
BR1120160036085	Brazil	Pending	PUCCH RESOURCE MAPPING AND HARQ-ACK FEEDBACK	ATIS.3GPP.36.213V1240-2015
2918497	Canada	Pending	PUCCH RESOURCE MAPPING AND HARQ-ACK FEEDBACK	ATIS.3GPP.36.213V1240-2015
201480046148.7	China P.R.	Pending	PUCCH RESOURCE MAPPING AND HARQ-ACK FEEDBACK	ATIS.3GPP.36.213V1240-2015
14837949.8	European Patent Convention	Pending	PUCCH RESOURCE MAPPING AND HARQ-ACK FEEDBACK	ATIS.3GPP.36.213V1240-2015
P-00201601325	Indonesia	Pending	PUCCH RESOURCE MAPPING AND HARQ-ACK FEEDBACK	ATIS.3GPP.36.213V1240-2015
201647001909	India	Pending	PUCCH RESOURCE MAPPING AND HARQ-ACK FEEDBACK	ATIS.3GPP.36.213V1240-2015
2016-535316	Japan	Pending	PUCCH RESOURCE MAPPING AND HARQ-ACK FEEDBACK	ATIS.3GPP.36.213V1240-2015
10-2016-7007251	Republic of Korea	Pending	PUCCH RESOURCE MAPPING AND HARQ-ACK FEEDBACK	ATIS.3GPP.36.213V1240-2015
14/276,680	United States	Pending	APPARATUS AND METHODS FOR NEGOTIATING PROACTIVE POLLING INTERVAL	ATIS.3GPP.31.111V8140-2014
14/476,008	United States	Pending	Operator controlled APN routing mapping	ATIS.3GPP.24.302V8100-2012
201480048391.2	China P.R.	Pending	Operator controlled APN routing mapping	ATIS.3GPP.24.302V8100-2012
14771461.2	European Patent Convention	Pending	Operator controlled APN routing mapping	ATIS.3GPP.24.302V8100-2012
P-00201602062	Indonesia	Pending	Operator controlled APN routing mapping	ATIS.3GPP.24.302V8100-2012
201647003099	India	Pending	Operator controlled APN routing mapping	ATIS.3GPP.24.302V8100-2012
2016-540392	Japan	Pending	Operator controlled APN routing mapping	ATIS.3GPP.24.302V8100-2012
10-2016-7008628	Republic of Korea	Pending	Operator controlled APN routing mapping	ATIS.3GPP.24.302V8100-2012
103130606	Taiwan	Pending	Operator controlled APN routing mapping	ATIS.3GPP.24.302V8100-2012
14/476,008	United States	Pending	Operator controlled APN routing mapping	ATIS.3GPP.24.312V930-2014
201480048391.2	China P.R.	Pending	Operator controlled APN routing mapping	ATIS.3GPP.24.312V930-2014

14771461.2	European Patent Convention	Pending	Operator controlled APN routing mapping	ATIS.3GPP.24.312V930-2014
P-00201602062	Indonesia	Pending	Operator controlled APN routing mapping	ATIS.3GPP.24.312V930-2014
201647003099	India	Pending	Operator controlled APN routing mapping	ATIS.3GPP.24.312V930-2014
2016-540392	Japan	Pending	Operator controlled APN routing mapping	ATIS.3GPP.24.312V930-2014
10-2016-7008628	Republic of Korea	Pending	Operator controlled APN routing mapping	ATIS.3GPP.24.312V930-2014
103130606	Taiwan	Pending	Operator controlled APN routing mapping	ATIS.3GPP.24.312V930-2014
9,380,609	United States	Granted	Method and apparatus for processing emergency calls	ATIS.3GPP.24.229V8270-2014
14/484,042	United States	Pending	Uplink channel design with coverage enhancements	ATIS.3GPP.36.212V1230-2015
BR1120160055292	Brazil	Pending	Uplink channel design with coverage enhancements	ATIS.3GPP.36.212V1230-2015
201480049573.1	China P.R.	Pending	Uplink channel design with coverage enhancements	ATIS.3GPP.36.212V1230-2015
14772542.8	European Patent Convention	Pending	Uplink channel design with coverage enhancements	ATIS.3GPP.36.212V1230-2015
201627003800	India	Pending	Uplink channel design with coverage enhancements	ATIS.3GPP.36.212V1230-2015
2016-542808	Japan	Pending	Uplink channel design with coverage enhancements	ATIS.3GPP.36.212V1230-2015
10-2016-7009130	Republic of Korea	Pending	Uplink channel design with coverage enhancements	ATIS.3GPP.36.212V1230-2015
14/484,042	United States	Pending	Uplink channel design with coverage enhancements	ATIS.3GPP.36.321V8120-2014
BR1120160055292	Brazil	Pending	Uplink channel design with coverage enhancements	ATIS.3GPP.36.321V8120-2014
201480049573.1	China P.R.	Pending	Uplink channel design with coverage enhancements	ATIS.3GPP.36.321V8120-2014
14772542.8	European Patent Convention	Pending	Uplink channel design with coverage enhancements	ATIS.3GPP.36.321V8120-2014
201627003800	India	Pending	Uplink channel design with coverage enhancements	ATIS.3GPP.36.321V8120-2014
2016-542808	Japan	Pending	Uplink channel design with coverage enhancements	ATIS.3GPP.36.321V8120-2014
10-2016-7009130	Republic of Korea	Pending	Uplink channel design with coverage enhancements	ATIS.3GPP.36.321V8120-2014
14/489,146	United States	Pending	COVERAGE ENHANCEMENTS FOR PHYSICAL BROADCAST CHANNEL (PBCH)	ATIS.3GPP.36.211V1240-2015
BR1120160058704	Brazil	Pending	Coverage enhancements for physical broadcast channel (PBCH)	ATIS.3GPP.36.211V1240-2015
2920904	Canada	Pending	Coverage enhancements for physical broadcast channel (PBCH)	ATIS.3GPP.36.211V1240-2015
201480051364.0	China P.R.	Pending	Coverage enhancements for physical broadcast channel (PBCH)	ATIS.3GPP.36.211V1240-2015
14781762.1	European Patent Convention	Pending	Coverage enhancements for physical broadcast channel (PBCH)	ATIS.3GPP.36.211V1240-2015
P-00201602360	Indonesia	Pending	Coverage enhancements for physical broadcast channel (PBCH)	ATIS.3GPP.36.211V1240-2015
201647004384	India	Pending	Coverage enhancements for physical broadcast channel (PBCH)	ATIS.3GPP.36.211V1240-2015
2016-543985	Japan	Pending	Coverage enhancements for physical broadcast channel (PBCH)	ATIS.3GPP.36.211V1240-2015
10-2016-7009937	Republic of Korea	Pending	Coverage enhancements for physical broadcast channel (PBCH)	ATIS.3GPP.36.211V1240-2015
14/483,962	United States	Pending	MAC SUBHEADER FOR D2D BROADCAST COMMUNICATION FOR PUBLIC SAFETY	ATIS.3GPP.36.321V8120-2014
BR1120160083571	Brazil	Pending	LTE MAC SUBHEADER FOR DEVICE-TO-DEVICE, D2D COMMUNICATION IN THE CONTEXT OF PUBLIC SAFETY APPLICATIONS	ATIS.3GPP.36.321V8120-2014
201480051705.4	China P.R.	Pending	LTE MAC SUBHEADER FOR DEVICE-TO-DEVICE, D2D COMMUNICATION IN THE CONTEXT OF PUBLIC SAFETY APPLICATIONS	ATIS.3GPP.36.321V8120-2014
14783696.9	European Patent Convention	Pending	LTE MAC SUBHEADER FOR DEVICE-TO-DEVICE, D2D COMMUNICATION IN THE CONTEXT OF PUBLIC SAFETY APPLICATIONS	ATIS.3GPP.36.321V8120-2014
201647004572	India	Pending	LTE MAC SUBHEADER FOR DEVICE-TO-DEVICE, D2D COMMUNICATION IN THE CONTEXT OF PUBLIC SAFETY APPLICATIONS	ATIS.3GPP.36.321V8120-2014
2016-515474	Japan	Pending	LTE MAC SUBHEADER FOR DEVICE-TO-DEVICE, D2D COMMUNICATION IN THE CONTEXT OF PUBLIC SAFETY APPLICATIONS	ATIS.3GPP.36.321V8120-2014

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14/483,962	United States	Pending	MAC SUBHEADER FOR D2D BROADCAST COMMUNICATION FOR PUBLIC SAFETY	ATIS.3GPP.36.331V8210-2016
BR1120160083571	Brazil	Pending	LTE MAC SUBHEADER FOR DEVICE-TO-DEVICE, D2D COMMUNICATION IN THE CONTEXT OF PUBLIC SAFETY APPLICATIONS	ATIS.3GPP.36.331V8210-2016
201480051705.4	China P.R.	Pending	LTE MAC SUBHEADER FOR DEVICE-TO-DEVICE, D2D COMMUNICATION IN THE CONTEXT OF PUBLIC SAFETY APPLICATIONS	ATIS.3GPP.36.331V8210-2016
14783696.9	European Patent Convention	Pending	LTE MAC SUBHEADER FOR DEVICE-TO-DEVICE, D2D COMMUNICATION IN THE CONTEXT OF PUBLIC SAFETY APPLICATIONS	ATIS.3GPP.36.331V8210-2016
201647004572	India	Pending	LTE MAC SUBHEADER FOR DEVICE-TO-DEVICE, D2D COMMUNICATION IN THE CONTEXT OF PUBLIC SAFETY APPLICATIONS	ATIS.3GPP.36.331V8210-2016
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10-2016-7009706	Republic of Korea	Pending	LTE MAC SUBHEADER FOR DEVICE-TO-DEVICE, D2D COMMUNICATION IN THE CONTEXT OF PUBLIC SAFETY APPLICATIONS	ATIS.3GPP.36.331V8210-2016
14/916,173	United States	Pending	Method and apparatus for efficient usage of DAI bits for eIMTA in LTE	ATIS.3GPP.36.213V1240-2015
BR1120160065760	Brazil	Pending	Method and apparatus for efficient usage of DAI bits for EIMTA in LTE	ATIS.3GPP.36.213V1240-2015
2921618	Canada	Pending	Method and apparatus for efficient usage of DAI bits for EIMTA in LTE	ATIS.3GPP.36.213V1240-2015
201380079802.X	China P.R.	Pending	Method and apparatus for efficient usage of DAI bits for EIMTA in LTE	ATIS.3GPP.36.213V1240-2015
13894901.1	European Patent Convention	Pending	Method and apparatus for efficient usage of DAI bits for EIMTA in LTE	ATIS.3GPP.36.213V1240-2015
P-00201602358	Indonesia	Pending	Method and apparatus for efficient usage of DAI bits for EIMTA in LTE	ATIS.3GPP.36.213V1240-2015
201627006334	India	Pending	Method and apparatus for efficient usage of DAI bits for EIMTA in LTE	ATIS.3GPP.36.213V1240-2015
2016-516893	Japan	Pending	Method and apparatus for efficient usage of DAI bits for EIMTA in LTE	ATIS.3GPP.36.213V1240-2015
10-2016-7010723	Republic of Korea	Pending	Method and apparatus for efficient usage of DAI bits for EIMTA in LTE	ATIS.3GPP.36.213V1240-2015
14/913,889	United States	Pending	CSI reporting for LTE-TDD eIMTA	ATIS.3GPP.36.212V1230-2015
BR1120160066677	Brazil	Pending	CSI reporting for LTE-TDD eIMTA	ATIS.3GPP.36.212V1230-2015
2922438	Canada	Pending	CSI reporting for LTE-TDD eIMTA	ATIS.3GPP.36.212V1230-2015
201480053032.6	China P.R.	Pending	CSI reporting for LTE-TDD eIMTA	ATIS.3GPP.36.212V1230-2015
14848308.4	European Patent Convention	Pending	CSI reporting for LTE-TDD eIMTA	ATIS.3GPP.36.212V1230-2015
P-00201602356	Indonesia	Pending	CSI reporting for LTE-TDD eIMTA	ATIS.3GPP.36.212V1230-2015
201627005828	India	Pending	CSI reporting for LTE-TDD eIMTA	ATIS.3GPP.36.212V1230-2015
2016-517382	Japan	Pending	CSI reporting for LTE-TDD eIMTA	ATIS.3GPP.36.212V1230-2015
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14/913,889	United States	Pending	CSI reporting for LTE-TDD eIMTA	ATIS.3GPP.36.213V1240-2015
BR1120160066677	Brazil	Pending	CSI reporting for LTE-TDD eIMTA	ATIS.3GPP.36.213V1240-2015
2922438	Canada	Pending	CSI reporting for LTE-TDD eIMTA	ATIS.3GPP.36.213V1240-2015
201480053032.6	China P.R.	Pending	CSI reporting for LTE-TDD eIMTA	ATIS.3GPP.36.213V1240-2015
14848308.4	European Patent Convention	Pending	CSI reporting for LTE-TDD eIMTA	ATIS.3GPP.36.213V1240-2015
P-00201602356	Indonesia	Pending	CSI reporting for LTE-TDD eIMTA	ATIS.3GPP.36.213V1240-2015
201627005828	India	Pending	CSI reporting for LTE-TDD eIMTA	ATIS.3GPP.36.213V1240-2015
2016-517382	Japan	Pending	CSI reporting for LTE-TDD eIMTA	ATIS.3GPP.36.213V1240-2015

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14/495,619	United States	Pending	Simplified FDD-TDD carrier aggregation	ATIS.3GPP.36.213V1240-2015
BR1120160065719	Brazil	Pending	Simplified FDD-TDD carrier aggregation	ATIS.3GPP.36.213V1240-2015
2922189	Canada	Pending	Simplified FDD-TDD carrier aggregation	ATIS.3GPP.36.213V1240-2015
201480052734.2	China P.R.	Pending	Simplified FDD-TDD carrier aggregation	ATIS.3GPP.36.213V1240-2015
14783962.5	European Patent Convention	Pending	Simplified FDD-TDD carrier aggregation	ATIS.3GPP.36.213V1240-2015
P-00201602248	Indonesia	Pending	Simplified FDD-TDD carrier aggregation	ATIS.3GPP.36.213V1240-2015
201627005493	India	Pending	Simplified FDD-TDD carrier aggregation	ATIS.3GPP.36.213V1240-2015
2016-516878	Japan	Pending	Simplified FDD-TDD carrier aggregation	ATIS.3GPP.36.213V1240-2015
10-2016-7010734	Republic of Korea	Pending	Simplified FDD-TDD carrier aggregation	ATIS.3GPP.36.213V1240-2015
14/497,268	United States	Pending	Reduced delay HARQ process timeline for FDD-TDD carrier aggregation	ATIS.3GPP.36.213V1240-2015
BR1120160065921	Brazil	Pending	Reduced delay HARQ process timeline for FDD-TDD carrier aggregation	ATIS.3GPP.36.213V1240-2015
201480053200.1	China P.R.	Pending	Reduced delay HARQ process timeline for FDD-TDD carrier aggregation	ATIS.3GPP.36.213V1240-2015
14790824.8	European Patent Convention	Pending	Reduced delay HARQ process timeline for FDD-TDD carrier aggregation	ATIS.3GPP.36.213V1240-2015
201647005365	India	Pending	Reduced delay HARQ process timeline for FDD-TDD carrier aggregation	ATIS.3GPP.36.213V1240-2015
2016-516841	Japan	Pending	Reduced delay HARQ process timeline for FDD-TDD carrier aggregation	ATIS.3GPP.36.213V1240-2015
10-2016-7010772	Republic of Korea	Pending	Reduced delay HARQ process timeline for FDD-TDD carrier aggregation	ATIS.3GPP.36.213V1240-2015
15/028,805	United States	Pending	CROSS-CARRIER INDICATION OF UPLINK/DOWNLINK SUBFRAME CONFIGURATIONS	ATIS.3GPP.36.212V1230-2015
BR1120160096029	Brazil	Pending	CROSS-CARRIER INDICATION OF UPLINK/DOWNLINK SUBFRAME CONFIGURATIONS	ATIS.3GPP.36.212V1230-2015
201480059342.9	China P.R.	Pending	CROSS-CARRIER INDICATION OF UPLINK/DOWNLINK SUBFRAME CONFIGURATIONS	ATIS.3GPP.36.212V1230-2015
14857661.4	European Patent Convention	Pending	CROSS-CARRIER INDICATION OF UPLINK/DOWNLINK SUBFRAME CONFIGURATIONS	ATIS.3GPP.36.212V1230-2015
201627009547	India	Pending	CROSS-CARRIER INDICATION OF UPLINK/DOWNLINK SUBFRAME CONFIGURATIONS	ATIS.3GPP.36.212V1230-2015
2016-526299	Japan	Pending	CROSS-CARRIER INDICATION OF UPLINK/DOWNLINK SUBFRAME CONFIGURATIONS	ATIS.3GPP.36.212V1230-2015
10-2016-7012850	Republic of Korea	Pending	CROSS-CARRIER INDICATION OF UPLINK/DOWNLINK SUBFRAME CONFIGURATIONS	ATIS.3GPP.36.212V1230-2015
15/028,805	United States	Pending	CROSS-CARRIER INDICATION OF UPLINK/DOWNLINK SUBFRAME CONFIGURATIONS	ATIS.3GPP.36.331V8210-2016
BR1120160096029	Brazil	Pending	CROSS-CARRIER INDICATION OF UPLINK/DOWNLINK SUBFRAME CONFIGURATIONS	ATIS.3GPP.36.331V8210-2016
201480059342.9	China P.R.	Pending	CROSS-CARRIER INDICATION OF UPLINK/DOWNLINK SUBFRAME CONFIGURATIONS	ATIS.3GPP.36.331V8210-2016
14857661.4	European Patent Convention	Pending	CROSS-CARRIER INDICATION OF UPLINK/DOWNLINK SUBFRAME CONFIGURATIONS	ATIS.3GPP.36.331V8210-2016
201627009547	India	Pending	CROSS-CARRIER INDICATION OF UPLINK/DOWNLINK SUBFRAME CONFIGURATIONS	ATIS.3GPP.36.331V8210-2016
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BR1120160098153	Brazil	Pending	METHOD AND APPARATUS FOR DETERMINING TO USE X2 GATEWAY FOR X2 INTERFACE	ATIS.3GPP.36.300V8120-2010
2927796	Canada	Pending	METHOD AND APPARATUS FOR DETERMINING TO USE X2 GATEWAY FOR X2 INTERFACE	ATIS.3GPP.36.300V8120-2010
201480059742.X	China P.R.	Pending	METHOD AND APPARATUS FOR DETERMINING TO USE X2 GATEWAY FOR X2 INTERFACE	ATIS.3GPP.36.300V8120-2010
14799301.8	European Patent Convention	Pending	METHOD AND APPARATUS FOR DETERMINING TO USE X2 GATEWAY FOR X2 INTERFACE	ATIS.3GPP.36.300V8120-2010
P-00201603018	Indonesia	Pending	METHOD AND APPARATUS FOR DETERMINING TO USE X2 GATEWAY FOR X2 INTERFACE	ATIS.3GPP.36.300V8120-2010
201647010110	India	Pending	METHOD AND APPARATUS FOR DETERMINING TO USE X2 GATEWAY FOR X2 INTERFACE	ATIS.3GPP.36.300V8120-2010
2016-526315	Japan	Pending	METHOD AND APPARATUS FOR DETERMINING TO USE X2 GATEWAY FOR X2 INTERFACE	ATIS.3GPP.36.300V8120-2010
10-2016-7013244	Republic of Korea	Pending	METHOD AND APPARATUS FOR DETERMINING TO USE X2 GATEWAY FOR X2 INTERFACE	ATIS.3GPP.36.300V8120-2010
14/528,989	United States	Pending	METHOD AND APPARATUS FOR DETERMINING TO USE X2 GATEWAY FOR X2 INTERFACE	ATIS.3GPP.36.413V8100-2012
BR1120160098153	Brazil	Pending	METHOD AND APPARATUS FOR DETERMINING TO USE X2 GATEWAY FOR X2 INTERFACE	ATIS.3GPP.36.413V8100-2012
2927796	Canada	Pending	METHOD AND APPARATUS FOR DETERMINING TO USE X2 GATEWAY FOR X2 INTERFACE	ATIS.3GPP.36.413V8100-2012
201480059742.X	China P.R.	Pending	METHOD AND APPARATUS FOR DETERMINING TO USE X2 GATEWAY FOR X2 INTERFACE	ATIS.3GPP.36.413V8100-2012
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P-00201603018	Indonesia	Pending	METHOD AND APPARATUS FOR DETERMINING TO USE X2 GATEWAY FOR X2 INTERFACE	ATIS.3GPP.36.413V8100-2012
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BR1120160098072	Brazil	Pending	TECHNIQUES FOR USING CARRIER AGGREGATION IN DUAL CONNECTIVITY WIRELESS COMMUNICATIONS	ATIS.3GPP.36.213V1240-2015
2926653	Canada	Pending	TECHNIQUES FOR USING CARRIER AGGREGATION IN DUAL CONNECTIVITY WIRELESS COMMUNICATIONS	ATIS.3GPP.36.213V1240-2015

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14795755.9	European Patent Convention	Pending	TECHNIQUES FOR USING CARRIER AGGREGATION IN DUAL CONNECTIVITY WIRELESS COMMUNICATIONS	ATIS.3GPP.36.213V1240-2015
P-00201602770	Indonesia	Pending	TECHNIQUES FOR USING CARRIER AGGREGATION IN DUAL CONNECTIVITY WIRELESS COMMUNICATIONS	ATIS.3GPP.36.213V1240-2015
201627010095	India	Pending	TECHNIQUES FOR USING CARRIER AGGREGATION IN DUAL CONNECTIVITY WIRELESS COMMUNICATIONS	ATIS.3GPP.36.213V1240-2015
2016-526358	Japan	Pending	TECHNIQUES FOR USING CARRIER AGGREGATION IN DUAL CONNECTIVITY WIRELESS COMMUNICATIONS	ATIS.3GPP.36.213V1240-2015
10-2016-7014109	Republic of Korea	Pending	TECHNIQUES FOR USING CARRIER AGGREGATION IN DUAL CONNECTIVITY WIRELESS COMMUNICATIONS	ATIS.3GPP.36.213V1240-2015
103136826	Taiwan	Pending	Techniques for using carrier aggregation in dual connectivity wireless communicaitons	ATIS.3GPP.36.213V1240-2015
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BR1120160098072	Brazil	Pending	TECHNIQUES FOR USING CARRIER AGGREGATION IN DUAL CONNECTIVITY WIRELESS COMMUNICATIONS	ATIS.3GPP.36.300V8120-2010
2926653	Canada	Pending	TECHNIQUES FOR USING CARRIER AGGREGATION IN DUAL CONNECTIVITY WIRELESS COMMUNICATIONS	ATIS.3GPP.36.300V8120-2010
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14795755.9	European Patent Convention	Pending	TECHNIQUES FOR USING CARRIER AGGREGATION IN DUAL CONNECTIVITY WIRELESS COMMUNICATIONS	ATIS.3GPP.36.300V8120-2010
P-00201602770	Indonesia	Pending	TECHNIQUES FOR USING CARRIER AGGREGATION IN DUAL CONNECTIVITY WIRELESS COMMUNICATIONS	ATIS.3GPP.36.300V8120-2010
201627010095	India	Pending	TECHNIQUES FOR USING CARRIER AGGREGATION IN DUAL CONNECTIVITY WIRELESS COMMUNICATIONS	ATIS.3GPP.36.300V8120-2010
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2926653	Canada	Pending	TECHNIQUES FOR USING CARRIER AGGREGATION IN DUAL CONNECTIVITY WIRELESS COMMUNICATIONS	ATIS.3GPP.36.331V8210-2016
201480058792.6	China P.R.	Pending	TECHNIQUES FOR USING CARRIER AGGREGATION IN DUAL CONNECTIVITY WIRELESS COMMUNICATIONS	ATIS.3GPP.36.331V8210-2016
14795755.9	European Patent Convention	Pending	TECHNIQUES FOR USING CARRIER AGGREGATION IN DUAL CONNECTIVITY WIRELESS COMMUNICATIONS	ATIS.3GPP.36.331V8210-2016

P-00201602770	Indonesia	Pending	TECHNIQUES FOR USING CARRIER AGGREGATION IN DUAL CONNECTIVITY WIRELESS COMMUNICATIONS	ATIS.3GPP.36.331V8210-2016
201627010095	India	Pending	TECHNIQUES FOR USING CARRIER AGGREGATION IN DUAL CONNECTIVITY WIRELESS COMMUNICATIONS	ATIS.3GPP.36.331V8210-2016
2016-526358	Japan	Pending	TECHNIQUES FOR USING CARRIER AGGREGATION IN DUAL CONNECTIVITY WIRELESS COMMUNICATIONS	ATIS.3GPP.36.331V8210-2016
10-2016-7014109	Republic of Korea	Pending	TECHNIQUES FOR USING CARRIER AGGREGATION IN DUAL CONNECTIVITY WIRELESS COMMUNICATIONS	ATIS.3GPP.36.331V8210-2016
103136826	Taiwan	Pending	Techniques for using carrier aggregation in dual connectivity wireless communicaitons	ATIS.3GPP.36.331V8210-2016
14/573,954	United States	Pending	PUSCH and PUCCH power control under coverage enhancements in LTE	ATIS.3GPP.36.213V1240-2015
BR1120160143779	Brazil	Pending	PUSCH and PUCCH power control under coverage enhancements in LTE	ATIS.3GPP.36.213V1240-2015
201480069109.9	China P.R.	Pending	PUSCH and PUCCH power control under coverage enhancements in LTE	ATIS.3GPP.36.213V1240-2015
14825546.6	European Patent Convention	Pending	PUSCH and PUCCH power control under coverage enhancements in LTE	ATIS.3GPP.36.213V1240-2015
201627016507	India	Pending	PUSCH and PUCCH power control under coverage enhancements in LTE	ATIS.3GPP.36.213V1240-2015
2016-541049	Japan	Pending	PUSCH and PUCCH power control under coverage enhancements in LTE	ATIS.3GPP.36.213V1240-2015
10-2016-7019086	Republic of Korea	Pending	PUSCH and PUCCH power control under coverage enhancements in LTE	ATIS.3GPP.36.213V1240-2015
14/556,950	United States	Pending	CONTROL CHANNEL SIGNALING AND POWER CONTROL WITH DISCONTINUOUS TRANSMISSIONS ON DEDICATED CHANNELS TO REDUCE CURRENT CONSUMPTION DURING VOICE CALLS	ATIS.3GPP.25.212V880-2016
BR1120160125088	Brazil	Pending	CONTROL CHANNEL SIGNALING AND POWER CONTROL WITH DISCONTINUOUS TRANSMISSIONS ON DEDICATED CHANNELS TO REDUCE CURRENT CONSUMPTION DURING VOICE CALLS	ATIS.3GPP.25.212V880-2016
201480065619.9	China P.R.	Pending	CONTROL CHANNEL SIGNALING AND POWER CONTROL WITH DISCONTINUOUS TRANSMISSIONS ON DEDICATED CHANNELS TO REDUCE CURRENT CONSUMPTION DURING VOICE CALLS	ATIS.3GPP.25.212V880-2016
14816046.8	European Patent Convention	Pending	CONTROL CHANNEL SIGNALING AND POWER CONTROL WITH DISCONTINUOUS TRANSMISSIONS ON DEDICATED CHANNELS TO REDUCE CURRENT CONSUMPTION DURING VOICE CALLS	ATIS.3GPP.25.212V880-2016
201627018965	India	Pending	CONTROL CHANNEL SIGNALING AND POWER CONTROL WITH DISCONTINUOUS TRANSMISSIONS ON DEDICATED CHANNELS TO REDUCE CURRENT CONSUMPTION DURING VOICE CALLS	ATIS.3GPP.25.212V880-2016
2016-534928	Japan	Pending	CONTROL CHANNEL SIGNALING AND POWER CONTROL WITH DISCONTINUOUS TRANSMISSIONS ON DEDICATED CHANNELS TO REDUCE CURRENT CONSUMPTION DURING VOICE CALLS	ATIS.3GPP.25.212V880-2016
10-2016-7017350	Republic of Korea	Pending	CONTROL CHANNEL SIGNALING AND POWER CONTROL WITH DISCONTINUOUS TRANSMISSIONS ON DEDICATED CHANNELS TO REDUCE CURRENT CONSUMPTION DURING VOICE CALLS	ATIS.3GPP.25.212V880-2016
14/556,950	United States	Pending	CONTROL CHANNEL SIGNALING AND POWER CONTROL WITH DISCONTINUOUS TRANSMISSIONS ON DEDICATED CHANNELS TO REDUCE CURRENT CONSUMPTION DURING VOICE CALLS	ATIS.3GPP.25.214V8130-2014
BR1120160125088	Brazil	Pending	CONTROL CHANNEL SIGNALING AND POWER CONTROL WITH DISCONTINUOUS TRANSMISSIONS ON DEDICATED CHANNELS TO REDUCE CURRENT CONSUMPTION DURING VOICE CALLS	ATIS.3GPP.25.214V8130-2014

201480065619.9	China P.R.	Pending	CONTROL CHANNEL SIGNALING AND POWER CONTROL WITH DISCONTINUOUS TRANSMISSIONS ON DEDICATED CHANNELS TO REDUCE CURRENT CONSUMPTION DURING VOICE CALLS	ATIS.3GPP.25.214V8130-2014
14816046.8	European Patent Convention	Pending	CONTROL CHANNEL SIGNALING AND POWER CONTROL WITH DISCONTINUOUS TRANSMISSIONS ON DEDICATED CHANNELS TO REDUCE CURRENT CONSUMPTION DURING VOICE CALLS	ATIS.3GPP.25.214V8130-2014
201627018965	India	Pending	CONTROL CHANNEL SIGNALING AND POWER CONTROL WITH DISCONTINUOUS TRANSMISSIONS ON DEDICATED CHANNELS TO REDUCE CURRENT CONSUMPTION DURING VOICE CALLS	ATIS.3GPP.25.214V8130-2014
2016-534928	Japan	Pending	CONTROL CHANNEL SIGNALING AND POWER CONTROL WITH DISCONTINUOUS TRANSMISSIONS ON DEDICATED CHANNELS TO REDUCE CURRENT CONSUMPTION DURING VOICE CALLS	ATIS.3GPP.25.214V8130-2014
10-2016-7017350	Republic of Korea	Pending	CONTROL CHANNEL SIGNALING AND POWER CONTROL WITH DISCONTINUOUS TRANSMISSIONS ON DEDICATED CHANNELS TO REDUCE CURRENT CONSUMPTION DURING VOICE CALLS	ATIS.3GPP.25.214V8130-2014
15/101,556	United States	Pending	MULTIPLE SUBFRAME SET CSI FEEDBACK	ATIS.3GPP.36.213V1240-2015
BR1120160158008	Brazil	Pending	MULTIPLE SUBFRAME SET CSI FEEDBACK	ATIS.3GPP.36.213V1240-2015
201580003753.0	China P.R.	Pending	MULTIPLE SUBFRAME SET CSI FEEDBACK	ATIS.3GPP.36.213V1240-2015
15735436.6	European Patent Convention	Pending	MULTIPLE SUBFRAME SET CSI FEEDBACK	ATIS.3GPP.36.213V1240-2015
201647018126	India	Pending	MULTIPLE SUBFRAME SET CSI FEEDBACK	ATIS.3GPP.36.213V1240-2015
UNKNOWN	Japan	Pending	MULTIPLE SUBFRAME SET CSI FEEDBACK	ATIS.3GPP.36.213V1240-2015
10-2016-7021332	Republic of Korea	Pending	MULTIPLE SUBFRAME SET CSI FEEDBACK	ATIS.3GPP.36.213V1240-2015
14/556,996	United States	Pending	Parameters for device to device discovery	ATIS.3GPP.36.331V8210-2016
BR1120160168097	Brazil	Pending	Parameters for device to device discovery	ATIS.3GPP.36.331V8210-2016
2933652	Canada	Pending	Parameters for device to device discovery	ATIS.3GPP.36.331V8210-2016
201480073520.3	China P.R.	Pending	Parameters for device to device discovery	ATIS.3GPP.36.331V8210-2016
14816530.1	European Patent Convention	Pending	Parameters for device to device discovery	ATIS.3GPP.36.331V8210-2016
P-00201604366	Indonesia	Pending	Parameters for device to device discovery	ATIS.3GPP.36.331V8210-2016
201647019829	India	Pending	Parameters for device to device discovery	ATIS.3GPP.36.331V8210-2016
10-2016-7021781	Republic of Korea	Pending	Parameters for device to device discovery	ATIS.3GPP.36.331V8210-2016
PCT/US2014/067998	Patent Cooperation Treaty	Pending	Parameters for device to device discovery	ATIS.3GPP.36.331V8210-2016
14/552,852	United States	Pending	Device-to-device discovery signaling for radio resource allocation	ATIS.3GPP.36.331V8210-2016
BR1120160167716	Brazil	Pending	Device-to-device discovery signaling for radio resource allocation	ATIS.3GPP.36.331V8210-2016
2933830	Canada	Pending	Device-to-device discovery signaling for radio resource allocation	ATIS.3GPP.36.331V8210-2016
201480073535.X	China P.R.	Pending	Device-to-device discovery signaling for radio resource allocation	ATIS.3GPP.36.331V8210-2016
14812850.7	European Patent Convention	Pending	Device-to-device discovery signaling for radio resource allocation	ATIS.3GPP.36.331V8210-2016
P-00201604421	Indonesia	Pending	Device-to-device discovery signaling for radio resource allocation	ATIS.3GPP.36.331V8210-2016
201647019946	India	Pending	Device-to-device discovery signaling for radio resource allocation	ATIS.3GPP.36.331V8210-2016
UNKNOWN	Japan	Pending	Device-to-device discovery signaling for radio resource allocation	ATIS.3GPP.36.331V8210-2016
10-2016-7022555	Republic of Korea	Pending	Device-to-device discovery signaling for radio resource allocation	ATIS.3GPP.36.331V8210-2016
PCT/US2014/067531	Patent Cooperation Treaty	Pending	Device-to-device discovery signaling for radio resource allocation	ATIS.3GPP.36.331V8210-2016
15/106,739	United States	Pending	Aperiodic CQI reporting for LTE-TDD EIMTA system	ATIS.3GPP.36.213V1240-2015

BR1120160168771	Brazil	Pending	Aperiodic CQI reporting for LTE-TDD EIMTA system	ATIS.3GPP.36.213V1240-2015
201580005627.9	China P.R.	Pending	Aperiodic CQI reporting for LTE-TDD EIMTA system	ATIS.3GPP.36.213V1240-2015
15740936.8	European Patent Convention	Pending	Aperiodic CQI reporting for LTE-TDD EIMTA system	ATIS.3GPP.36.213V1240-2015
201647021301	India	Pending	Aperiodic CQI reporting for LTE-TDD EIMTA system	ATIS.3GPP.36.213V1240-2015
2016-548037	Japan	Pending	Aperiodic CQI reporting for LTE-TDD EIMTA system	ATIS.3GPP.36.213V1240-2015
10-2016-7022551	Republic of Korea	Pending	Aperiodic CQI reporting for LTE-TDD EIMTA system	ATIS.3GPP.36.213V1240-2015
PCT/CN2014/000094	Patent Cooperation Treaty	Pending	Aperiodic CQI reporting for LTE-TDD EIMTA system	ATIS.3GPP.36.213V1240-2015
PCT/CN2015/070249	Patent Cooperation Treaty	Pending	Aperiodic CQI reporting for LTE-TDD EIMTA system	ATIS.3GPP.36.213V1240-2015
15/109,596	United States	Pending	HANDOVER INTO DYNAMIC TDD UL/DL CONFIGURATION ENABLED CELL AND/OR COMP CELLS	ATIS.3GPP.36.331V8210-2016
BR1120160183096	Brazil	Pending	HANDOVER INTO DYNAMIC TDD UL/DL CONFIGURATION ENABLED CELLS AND/OR COMP CELLS	ATIS.3GPP.36.331V8210-2016
201580007638.0	China P.R.	Pending	HANDOVER INTO DYNAMIC TDD UL/DL CONFIGURATION ENABLED CELLS AND/OR COMP CELLS	ATIS.3GPP.36.331V8210-2016
15746468.6	European Patent Convention	Pending	HANDOVER INTO DYNAMIC TDD UL/DL CONFIGURATION ENABLED CELLS AND/OR COMP CELLS	ATIS.3GPP.36.331V8210-2016
201627022902	India	Pending	HANDOVER INTO DYNAMIC TDD UL/DL CONFIGURATION ENABLED CELLS AND/OR COMP CELLS	ATIS.3GPP.36.331V8210-2016
2016-550811	Japan	Pending	HANDOVER INTO DYNAMIC TDD UL/DL CONFIGURATION ENABLED CELLS AND/OR COMP CELLS	ATIS.3GPP.36.331V8210-2016
10-2016-7024544	Republic of Korea	Pending	HANDOVER INTO DYNAMIC TDD UL/DL CONFIGURATION ENABLED CELLS AND/OR COMP CELLS	ATIS.3GPP.36.331V8210-2016
PCT/CN2014/071912	Patent Cooperation Treaty	Pending	Handover into dynamic TDD UL/DL configuration enabled cells and/or comp cells	ATIS.3GPP.36.331V8210-2016
PCT/CN2015/072638	Patent Cooperation Treaty	Pending	HANDOVER INTO DYNAMIC TDD UL/DL CONFIGURATION ENABLED CELLS AND/OR COMP CELLS	ATIS.3GPP.36.331V8210-2016
14/607,455	United States	Pending	Carrier aggregation with dynamic TDD DL/UL subframe configuration	ATIS.3GPP.36.213V1240-2015
BR1120160172655	Brazil	Pending	Carrier aggregation with dynamic TDD DL/UL subframe configuration	ATIS.3GPP.36.213V1240-2015
201580006278.2	China P.R.	Pending	Carrier aggregation with dynamic TDD DL/UL subframe configuration	ATIS.3GPP.36.213V1240-2015
15704173.2	European Patent Convention	Pending	Carrier aggregation with dynamic TDD DL/UL subframe configuration	ATIS.3GPP.36.213V1240-2015
201627022258	India	Pending	Carrier aggregation with dynamic TDD DL/UL subframe configuration	ATIS.3GPP.36.213V1240-2015
2016-548637	Japan	Pending	Carrier aggregation with dynamic TDD DL/UL subframe configuration	ATIS.3GPP.36.213V1240-2015
10-2016-7022141	Republic of Korea	Pending	Carrier aggregation with dynamic TDD DL/UL subframe configuration	ATIS.3GPP.36.213V1240-2015
PCT/US2015/013430	Patent Cooperation Treaty	Pending	Carrier aggregation with dynamic TDD DL/UL subframe configuration	ATIS.3GPP.36.213V1240-2015
14/607,348	United States	Pending	Uplink transmit power allocation and power headroom reporting by a user equipment in a multi-connectivity environment	ATIS.3GPP.36.213V1240-2015
BR1120160171292	Brazil	Pending	Uplink transmit power allocation and power headroom reporting by a user equipment in a multi-connectivity environment	ATIS.3GPP.36.213V1240-2015
2935310	Canada	Pending	Uplink transmit power allocation and power headroom reporting by a user equipment in a multi-connectivity environment	ATIS.3GPP.36.213V1240-2015
201580006186.4	China P.R.	Pending	Uplink transmit power allocation and power headroom reporting by a user equipment in a multi-connectivity environment	ATIS.3GPP.36.213V1240-2015

15704171.6	European Patent Convention	Pending	Uplink transmit power allocation and power headroom reporting by a user equipment in a multi-connectivity environment	ATIS.3GPP.36.213V1240-2015
P-00201604682	Indonesia	Pending	Uplink transmit power allocation and power headroom reporting by a user equipment in a multi-connectivity environment	ATIS.3GPP.36.213V1240-2015
201627020977	India	Pending	Uplink transmit power allocation and power headroom reporting by a user equipment in a multi-connectivity environment	ATIS.3GPP.36.213V1240-2015
2016-548638	Japan	Pending	Uplink transmit power allocation and power headroom reporting by a user equipment in a multi-connectivity environment	ATIS.3GPP.36.213V1240-2015
10-2016-7023543	Republic of Korea	Pending	Uplink transmit power allocation and power headroom reporting by a user equipment in a multi-connectivity environment	ATIS.3GPP.36.213V1240-2015
PCT/US2015/013416	Patent Cooperation Treaty	Pending	Uplink transmit power allocation and power headroom reporting by a user equipment in a multi-connectivity environment	ATIS.3GPP.36.213V1240-2015
14/604,043	United States	Pending	MBSFN and RS considerations in bundled transmission design	ATIS.3GPP.36.211V1240-2015
201580006610.5	China P.R.	Pending	MBSFN and RS considerations in bundled transmission design	ATIS.3GPP.36.211V1240-2015
15704637.6	European Patent Convention	Pending	MBSFN and RS considerations in bundled transmission design	ATIS.3GPP.36.211V1240-2015
201647021750	India	Pending	MBSFN and RS considerations in bundled transmission design	ATIS.3GPP.36.211V1240-2015
2016-548629	Japan	Pending	MBSFN and RS considerations in bundled transmission design	ATIS.3GPP.36.211V1240-2015
PCT/US2015/012906	Patent Cooperation Treaty	Pending	MBSFN and RS considerations in bundled transmission design	ATIS.3GPP.36.211V1240-2015
14/604,043	United States	Pending	MBSFN and RS considerations in bundled transmission design	ATIS.3GPP.36.213V1240-2015
201580006610.5	China P.R.	Pending	MBSFN and RS considerations in bundled transmission design	ATIS.3GPP.36.213V1240-2015
15704637.6	European Patent Convention	Pending	MBSFN and RS considerations in bundled transmission design	ATIS.3GPP.36.213V1240-2015
201647021750	India	Pending	MBSFN and RS considerations in bundled transmission design	ATIS.3GPP.36.213V1240-2015
2016-548629	Japan	Pending	MBSFN and RS considerations in bundled transmission design	ATIS.3GPP.36.213V1240-2015
PCT/US2015/012906	Patent Cooperation Treaty	Pending	MBSFN and RS considerations in bundled transmission design	ATIS.3GPP.36.213V1240-2015
14/599,254	United States	Pending	Switching mode of operation in D2D communications	ATIS.3GPP.36.331V8210-2016
BR1120160170792	Brazil	Pending	Switching mode of operation in D2D communications	ATIS.3GPP.36.331V8210-2016
2934887	Canada	Pending	Switching mode of operation in D2D communications	ATIS.3GPP.36.331V8210-2016
201580005839.7	China P.R.	Pending	Switching mode of operation in D2D communications	ATIS.3GPP.36.331V8210-2016
15703669.0	European Patent Convention	Pending	Switching mode of operation in D2D communications	ATIS.3GPP.36.331V8210-2016
P-00201604423	Indonesia	Pending	Switching mode of operation in D2D communications	ATIS.3GPP.36.331V8210-2016
201627020763	India	Pending	Switching mode of operation in D2D communications	ATIS.3GPP.36.331V8210-2016
UNKNOWN	Japan	Pending	Switching mode of operation in D2D communications	ATIS.3GPP.36.331V8210-2016
10-2016-7021552	Republic of Korea	Pending	Switching mode of operation in D2D communications	ATIS.3GPP.36.331V8210-2016
PCT/US2015/011910	Patent Cooperation Treaty	Pending	Switching mode of operation in D2D communications	ATIS.3GPP.36.331V8210-2016
14/608,688	United States	Pending	Procedures for managing secondary eNB (SeNB) radio link failure (S-RLF) in dual connectivity scenarios	ATIS.3GPP.36.331V8210-2016
BR1120160173198	Brazil	Pending	Procedures for managing secondary eNB (SeNB) radio link failure (S-RLF) in dual connectivity scenarios	ATIS.3GPP.36.331V8210-2016
201580006452.3	China P.R.	Pending	Procedures for managing secondary eNB (SeNB) radio link failure (S-RLF) in dual connectivity scenarios	ATIS.3GPP.36.331V8210-2016
15704656.6	European Patent Convention	Pending	Procedures for managing secondary eNB (SeNB) radio link failure (S-RLF) in dual connectivity scenarios	ATIS.3GPP.36.331V8210-2016

201627021336	India	Pending	Procedures for managing secondary eNB (SeNB) radio link failure (S-RLF) in dual connectivity scenarios	ATIS.3GPP.36.331V8210-2016
2016-549124	Japan	Pending	Procedures for managing secondary eNB (SeNB) radio link failure (S-RLF) in dual connectivity scenarios	ATIS.3GPP.36.331V8210-2016
10-2016-7022518	Republic of Korea	Pending	Procedures for managing secondary eNB (SeNB) radio link failure (S-RLF) in dual connectivity scenarios	ATIS.3GPP.36.331V8210-2016
PCT/US2015/013638	Patent Cooperation Treaty	Pending	Procedures for managing secondary eNB (SeNB) radio link failure (S-RLF) in dual connectivity scenarios	ATIS.3GPP.36.331V8210-2016
7,162,245	United States	Granted	Intersystem call transfer method for use in cellular mobile radio systems	ATIS.3GPP.25.423V8140-2016
ZL01137681.3	China P.R.	Granted	Intersystem cell transfer method or cellular mobile radio system	ATIS.3GPP.25.423V8140-2016
EP1207713	Germany	Granted	Method of conducting an inter-system handoff in a mobile cellular radio communication system	ATIS.3GPP.25.423V8140-2016
EP1207713	European Patent Convention	Granted	Method of conducting an inter-system handoff in a mobile cellular radio communication system	ATIS.3GPP.25.423V8140-2016
EP1207713	Spain	Granted	Method of conducting an inter-system handoff in a mobile cellular radio communication system	ATIS.3GPP.25.423V8140-2016
FR2816799	France	Granted	Method of conducting an inter-system handoff in a mobile cellular radio communication system	ATIS.3GPP.25.423V8140-2016
EP1207713	France	Granted	Method of conducting an inter-system handoff in a mobile cellular radio communication system	ATIS.3GPP.25.423V8140-2016
EP1207713	Great Britain	Granted	Method of conducting an inter-system handoff in a mobile cellular radio communication system	ATIS.3GPP.25.423V8140-2016
EP1207713	Italy	Granted	Method of conducting an inter-system handoff in a mobile cellular radio communication system	ATIS.3GPP.25.423V8140-2016
14/594,577	United States	Pending	Interference management information signaling	ATIS.3GPP.36.213V1240-2015
201580006006.2	China P.R.	Pending	Interference management information signaling	ATIS.3GPP.36.213V1240-2015
15704867.9	European Patent Convention	Pending	Interference management information signaling	ATIS.3GPP.36.213V1240-2015
201627022261	India	Pending	Interference management information signaling	ATIS.3GPP.36.213V1240-2015
2016-549087	Japan	Pending	Interference management information signaling	ATIS.3GPP.36.213V1240-2015
PCT/US2015/011343	Patent Cooperation Treaty	Pending	Interference management information signaling	ATIS.3GPP.36.213V1240-2015
14/594,577	United States	Pending	Interference management information signaling	ATIS.3GPP.36.331V8210-2016
201580006006.2	China P.R.	Pending	Interference management information signaling	ATIS.3GPP.36.331V8210-2016
15704867.9	European Patent Convention	Pending	Interference management information signaling	ATIS.3GPP.36.331V8210-2016
201627022261	India	Pending	Interference management information signaling	ATIS.3GPP.36.331V8210-2016
2016-549087	Japan	Pending	Interference management information signaling	ATIS.3GPP.36.331V8210-2016
PCT/US2015/011343	Patent Cooperation Treaty	Pending	Interference management information signaling	ATIS.3GPP.36.331V8210-2016
14/614,325	United States	Pending	Methods of efficient handover and reselection to a home eNodeB using user equipment motion	ATIS.3GPP.25.304V8120-2012
PCT/US2015/068062	Patent Cooperation Treaty	Pending	Methods of efficient handover and reselection to a home eNodeB using user equipment motion	ATIS.3GPP.25.304V8120-2012
14/614,325	United States	Pending	Methods of efficient handover and reselection to a home eNodeB using user equipment motion	ATIS.3GPP.36.304V8100-2012

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14/608,433	United States	Pending	Handling FDD and TDD timing offset in FDD and TDD CA in LTE	ATIS.3GPP.36.213V1240-2015
BR1120160182979	Brazil	Pending	Handling FDD and TDD timing offset in FDD and TDD CA in LTE	ATIS.3GPP.36.213V1240-2015
2936583	Canada	Pending	Handling FDD and TDD timing offset in FDD and TDD CA in LTE	ATIS.3GPP.36.213V1240-2015
201580007714.8	China P.R.	Pending	Handling FDD and TDD timing offset in FDD and TDD CA in LTE	ATIS.3GPP.36.213V1240-2015
15704895.0	European Patent Convention	Pending	Handling FDD and TDD timing offset in FDD and TDD CA in LTE	ATIS.3GPP.36.213V1240-2015
P-00201604841	Indonesia	Pending	Handling FDD and TDD timing offset in FDD and TDD CA in LTE	ATIS.3GPP.36.213V1240-2015
201647022914	India	Pending	Handling FDD and TDD timing offset in FDD and TDD CA in LTE	ATIS.3GPP.36.213V1240-2015
2016-550711	Japan	Pending	Handling FDD and TDD timing offset in FDD and TDD CA in LTE	ATIS.3GPP.36.213V1240-2015
10-2016-7022639	Republic of Korea	Pending	Handling FDD and TDD timing offset in FDD and TDD CA in LTE	ATIS.3GPP.36.213V1240-2015
PCT/US2015/013669	Patent Cooperation Treaty	Pending	Handling FDD and TDD timing offset in FDD and TDD CA in LTE	ATIS.3GPP.36.213V1240-2015
14/581,580	United States	Pending	Methods and systems for returning an early positioning fix	ATIS.3GPP.36.355V10120-2015
2936589	Canada	Pending	Methods and systems for returning an early positioning fix	ATIS.3GPP.36.355V10120-2015
201580007774.X	China P.R.	Pending	Methods and systems for returning an early positioning fix	ATIS.3GPP.36.355V10120-2015
15725131.5	European Patent Convention	Pending	Methods and systems for returning an early positioning fix	ATIS.3GPP.36.355V10120-2015
P-00201605170	Indonesia	Pending	Methods and systems for returning an early positioning fix	ATIS.3GPP.36.355V10120-2015
201627023159	India	Pending	Methods and systems for returning an early positioning fix	ATIS.3GPP.36.355V10120-2015
2016-551304	Japan	Pending	Methods and systems for returning an early positioning fix	ATIS.3GPP.36.355V10120-2015
PCT/US2015/015501	Patent Cooperation Treaty	Pending	Methods and systems for returning an early positioning fix	ATIS.3GPP.36.355V10120-2015
14/567,573	United States	Pending	Techniques for reporting channel state information (CSI) for an unlicensed radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
UNKNOWN	China P.R.	Pending	Techniques for reporting channel state information (CSI) for an unlicensed radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
15708384.1	European Patent Convention	Pending	Techniques for reporting channel state information (CSI) for an unlicensed radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
P-00201605402	Indonesia	Pending	Techniques for reporting channel state information (CSI) for an unlicensed radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
201647025094	India	Pending	Techniques for reporting channel state information (CSI) for an unlicensed radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
2016-553855	Japan	Pending	Techniques for reporting channel state information (CSI) for an unlicensed radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
MX/a/2016/010994	Mexico	Pending	Techniques for reporting channel state information (CSI) for an unlicensed radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
PCT/US2015/016031	Patent Cooperation Treaty	Pending	Techniques for reporting channel state information (CSI) for an unlicensed radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
14/608,851	United States	Pending	Scheduling assignment content and transmission in wireless communications	ATIS.3GPP.36.213V1240-2015
UNKNOWN	China P.R.	Pending	Scheduling assignment content and transmission in wireless communications	ATIS.3GPP.36.213V1240-2015
15704659.0	European Patent Convention	Pending	Scheduling assignment content and transmission in wireless communications	ATIS.3GPP.36.213V1240-2015
P-00201605932	Indonesia	Pending	Scheduling assignment content and transmission in wireless communications	ATIS.3GPP.36.213V1240-2015
201647027148	India	Pending	Scheduling assignment content and transmission in wireless communications	ATIS.3GPP.36.213V1240-2015
MX/a/2016/011864	Mexico	Pending	Scheduling assignment content and transmission in wireless communications	ATIS.3GPP.36.213V1240-2015

104103442	Taiwan	Pending	Scheduling assignment content and transmission in wireless communications	ATIS.3GPP.36.213V1240-2015
PCT/US2015/013796	Patent Cooperation Treaty	Pending	Scheduling assignment content and transmission in wireless communications	ATIS.3GPP.36.213V1240-2015
14/645,852	United States	Pending	Time hopping in device-to-device transmissions	ATIS.3GPP.36.213V1240-2015
UNKNOWN	China P.R.	Pending	Time hopping in device-to-device transmissions	ATIS.3GPP.36.213V1240-2015
15716901.2	European Patent Convention	Pending	Time hopping in device-to-device transmissions	ATIS.3GPP.36.213V1240-2015
P-00201606005	Indonesia	Pending	Time hopping in device-to-device transmissions	ATIS.3GPP.36.213V1240-2015
201627029677	India	Pending	Time hopping in device-to-device transmissions	ATIS.3GPP.36.213V1240-2015
UNKNOWN	Japan	Pending	Time hopping in device-to-device transmissions	ATIS.3GPP.36.213V1240-2015
10-2016-7025372	Republic of Korea	Pending	Time hopping in device-to-device transmissions	ATIS.3GPP.36.213V1240-2015
MX/a/2016/011757	Mexico	Pending	Time hopping in device-to-device transmissions	ATIS.3GPP.36.213V1240-2015
PCT/US2015/020341	Patent Cooperation Treaty	Pending	Time hopping in device-to-device transmissions	ATIS.3GPP.36.213V1240-2015
14/609,003	United States	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.303V890-2014
2015231950	Australia	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.303V890-2014
UNKNOWN	Canada	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.303V890-2014
UNKNOWN	China P.R.	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.303V890-2014
247800	Israel	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.303V890-2014
201647027146	India	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.303V890-2014
UNKNOWN	Japan	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.303V890-2014
PI 2016702872	Malaysia	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.303V890-2014
NG/PT/C/2016/2009	Nigeria	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.303V890-2014
723094	New Zealand	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.303V890-2014
11201606473Q	Singapore	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.303V890-2014
1601005389	Thailand	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.303V890-2014
1-2016-03470	Vietnam	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.303V890-2014
PCT/US2015/013804	Patent Cooperation Treaty	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.303V890-2014
14/609,003	United States	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.334V1211-2016
2015231950	Australia	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.334V1211-2016
UNKNOWN	Canada	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.334V1211-2016
UNKNOWN	China P.R.	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.334V1211-2016
247800	Israel	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.334V1211-2016
201647027146	India	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.334V1211-2016
UNKNOWN	Japan	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.334V1211-2016
PI 2016702872	Malaysia	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.334V1211-2016
NG/PT/C/2016/2009	Nigeria	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.334V1211-2016
723094	New Zealand	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.334V1211-2016
11201606473Q	Singapore	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.334V1211-2016
1601005389	Thailand	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.334V1211-2016
1-2016-03470	Vietnam	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.334V1211-2016
PCT/US2015/013804	Patent Cooperation Treaty	Pending	Prevention of replay attack in long term evolution device-to-device discovery	ATIS.3GPP.24.334V1211-2016

14/608,819	United States	Pending	Signaling flows and buffer status report for a group in device-to-device broadcast communication	ATIS.3GPP.36.321V8120-2014
UNKNOWN	China P.R.	Pending	Signaling flows and buffer status report for a group in device-to-device broadcast communication	ATIS.3GPP.36.321V8120-2014
15704661.6	European Patent Convention	Pending	Signaling flows and buffer status report for a group in device-to-device broadcast communication	ATIS.3GPP.36.321V8120-2014
P-00201605561	Indonesia	Pending	Signaling flows and buffer status report for a group in device-to-device broadcast communication	ATIS.3GPP.36.321V8120-2014
201627027269	India	Pending	Signaling flows and buffer status report for a group in device-to-device broadcast communication	ATIS.3GPP.36.321V8120-2014
UNKNOWN	Japan	Pending	Signaling flows and buffer status report for a group in device-to-device broadcast communication	ATIS.3GPP.36.321V8120-2014
10-2016-7025162	Republic of Korea	Pending	Signaling flows and buffer status report for a group in device-to-device broadcast communication	ATIS.3GPP.36.321V8120-2014
MX/a/2016/011216	Mexico	Pending	Signaling flows and buffer status report for a group in device-to-device broadcast communication	ATIS.3GPP.36.321V8120-2014
PCT/US2015/013833	Patent Cooperation Treaty	Pending	Signaling flows and buffer status report for a group in device-to-device broadcast communication	ATIS.3GPP.36.321V8120-2014
14/608,819	United States	Pending	Signaling flows and buffer status report for a group in device-to-device broadcast communication	ATIS.3GPP.36.331V8210-2016
UNKNOWN	China P.R.	Pending	Signaling flows and buffer status report for a group in device-to-device broadcast communication	ATIS.3GPP.36.331V8210-2016
15704661.6	European Patent Convention	Pending	Signaling flows and buffer status report for a group in device-to-device broadcast communication	ATIS.3GPP.36.331V8210-2016
P-00201605561	Indonesia	Pending	Signaling flows and buffer status report for a group in device-to-device broadcast communication	ATIS.3GPP.36.331V8210-2016
201627027269	India	Pending	Signaling flows and buffer status report for a group in device-to-device broadcast communication	ATIS.3GPP.36.331V8210-2016
UNKNOWN	Japan	Pending	Signaling flows and buffer status report for a group in device-to-device broadcast communication	ATIS.3GPP.36.331V8210-2016
10-2016-7025162	Republic of Korea	Pending	Signaling flows and buffer status report for a group in device-to-device broadcast communication	ATIS.3GPP.36.331V8210-2016
MX/a/2016/011216	Mexico	Pending	Signaling flows and buffer status report for a group in device-to-device broadcast communication	ATIS.3GPP.36.331V8210-2016
PCT/US2015/013833	Patent Cooperation Treaty	Pending	Signaling flows and buffer status report for a group in device-to-device broadcast communication	ATIS.3GPP.36.331V8210-2016
14/607,383	United States	Pending	Scheduling of device-to-device scheduling assignment for mode1	ATIS.3GPP.36.212V1230-2015
UNKNOWN	China P.R.	Pending	SCHEDULING OF DEVICE-TO-DEVICE COMMUNICATIONS	ATIS.3GPP.36.212V1230-2015
15704652.5	European Patent Convention	Pending	SCHEDULING OF DEVICE-TO-DEVICE COMMUNICATIONS	ATIS.3GPP.36.212V1230-2015
P-00201606007	Indonesia	Pending	SCHEDULING OF DEVICE-TO-DEVICE COMMUNICATIONS	ATIS.3GPP.36.212V1230-2015
201627027615	India	Pending	SCHEDULING OF DEVICE-TO-DEVICE COMMUNICATIONS	ATIS.3GPP.36.212V1230-2015
UNKNOWN	Japan	Pending	SCHEDULING OF DEVICE-TO-DEVICE COMMUNICATIONS	ATIS.3GPP.36.212V1230-2015
MX/a/2016/011362	Mexico	Pending	SCHEDULING OF DEVICE-TO-DEVICE COMMUNICATIONS	ATIS.3GPP.36.212V1230-2015
104103260	Taiwan	Pending	Scheduling of device-to-device scheduling assignment for mode1	ATIS.3GPP.36.212V1230-2015

PCT/US2015/013526	Patent Cooperation Treaty	Pending	SCHEDULING OF DEVICE-TO-DEVICE COMMUNICATIONS	ATIS.3GPP.36.212V1230-2015
14/584,149	United States	Pending	Techniques for configuring preamble and overhead signals for transmissions in an unlicensed radio frequency spectrum band	ATIS.3GPP.36.211V1240-2015
BD/P/2015/000058	Bangladesh	Pending	Techniques for configuring preamble and overhead signals for transmissions in an unlicensed radio frequency spectrum band	ATIS.3GPP.36.211V1240-2015
UNKNOWN	China P.R.	Pending	Techniques for configuring preamble and overhead signals for transmissions in an unlicensed radio frequency spectrum band	ATIS.3GPP.36.211V1240-2015
15712735.8	European Patent Convention	Pending	Techniques for configuring preamble and overhead signals for transmissions in an unlicensed radio frequency spectrum band	ATIS.3GPP.36.211V1240-2015
201647027294	India	Pending	Techniques for configuring preamble and overhead signals for transmissions in an unlicensed radio frequency spectrum band	ATIS.3GPP.36.211V1240-2015
UNKNOWN	Japan	Pending	Techniques for configuring preamble and overhead signals for transmissions in an unlicensed radio frequency spectrum band	ATIS.3GPP.36.211V1240-2015
10-2016-7025389	Republic of Korea	Pending	Techniques for configuring preamble and overhead signals for transmissions in an unlicensed radio frequency spectrum band	ATIS.3GPP.36.211V1240-2015
PCT/US2015/019463	Patent Cooperation Treaty	Pending	Techniques for configuring preamble and overhead signals for transmissions in an unlicensed radio frequency spectrum band	ATIS.3GPP.36.211V1240-2015
14/584,149	United States	Pending	Techniques for configuring preamble and overhead signals for transmissions in an unlicensed radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
BD/P/2015/000058	Bangladesh	Pending	Techniques for configuring preamble and overhead signals for transmissions in an unlicensed radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
UNKNOWN	China P.R.	Pending	Techniques for configuring preamble and overhead signals for transmissions in an unlicensed radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
15712735.8	European Patent Convention	Pending	Techniques for configuring preamble and overhead signals for transmissions in an unlicensed radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
201647027294	India	Pending	Techniques for configuring preamble and overhead signals for transmissions in an unlicensed radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
UNKNOWN	Japan	Pending	Techniques for configuring preamble and overhead signals for transmissions in an unlicensed radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
10-2016-7025389	Republic of Korea	Pending	Techniques for configuring preamble and overhead signals for transmissions in an unlicensed radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
PCT/US2015/019463	Patent Cooperation Treaty	Pending	Techniques for configuring preamble and overhead signals for transmissions in an unlicensed radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
14/661,895	United States	Pending	Semi-persistent scheduling for eIMTA in LTE	ATIS.3GPP.36.321V8120-2014
UNKNOWN	Brazil	Pending	Semi-persistent scheduling for eIMTA in LTE	ATIS.3GPP.36.321V8120-2014
UNKNOWN	China P.R.	Pending	Semi-persistent scheduling for eIMTA in LTE	ATIS.3GPP.36.321V8120-2014
15715554.0	European Patent Convention	Pending	Semi-persistent scheduling for eIMTA in LTE	ATIS.3GPP.36.321V8120-2014
201647027432	India	Pending	Semi-persistent scheduling for eIMTA in LTE	ATIS.3GPP.36.321V8120-2014
UNKNOWN	Japan	Pending	Semi-persistent scheduling for eIMTA in LTE	ATIS.3GPP.36.321V8120-2014
PCT/US2015/021596	Patent Cooperation Treaty	Pending	Semi-persistent scheduling for eIMTA in LTE	ATIS.3GPP.36.321V8120-2014
14/516,276	United States	Pending	HS-DPCCH overhead reduction in multi-RAB scenarios	ATIS.3GPP.25.214V8130-2014
UNKNOWN	China P.R.	Pending	HS-DPCCH overhead reduction in multi-RAB scenarios	ATIS.3GPP.25.214V8130-2014
15717286.7	European Patent Convention	Pending	HS-DPCCH overhead reduction in multi-RAB scenarios	ATIS.3GPP.25.214V8130-2014

201627029667	India	Pending	HS-DPCCH overhead reduction in multi-RAB scenarios	ATIS.3GPP.25.214V8130-2014
UNKNOWN	Japan	Pending	HS-DPCCH overhead reduction in multi-RAB scenarios	ATIS.3GPP.25.214V8130-2014
10-2016-7025444	Republic of Korea	Pending	HS-DPCCH overhead reduction in multi-RAB scenarios	ATIS.3GPP.25.214V8130-2014
PCT/US2015/020486	Patent Cooperation Treaty	Pending	HS-DPCCH overhead reduction in multi-RAB scenarios	ATIS.3GPP.25.214V8130-2014
14/617,363	United States	Pending	Flexible channel state information feedback management	ATIS.3GPP.36.213V1240-2015
15705470.1	European Patent Convention	Pending	Flexible channel state information feedback management	ATIS.3GPP.36.213V1240-2015
201627028424	India	Pending	Flexible channel state information feedback management	ATIS.3GPP.36.213V1240-2015
MX/a/2016/011814	Mexico	Pending	Flexible channel state information feedback management	ATIS.3GPP.36.213V1240-2015
PCT/US2015/015196	Patent Cooperation Treaty	Pending	Flexible channel state information feedback management	ATIS.3GPP.36.213V1240-2015
9,357,510	United States	Granted	Power sharing and power headroom reporting in dual connectivity scenarios	ATIS.3GPP.36.213V1240-2015
15718027.4	European Patent Convention	Pending	Power sharing and power headroom reporting in dual connectivity scenarios	ATIS.3GPP.36.213V1240-2015
P-00201606289	Indonesia	Pending	Power sharing and power headroom reporting in dual connectivity scenarios	ATIS.3GPP.36.213V1240-2015
201647028452	India	Pending	Power sharing and power headroom reporting in dual connectivity scenarios	ATIS.3GPP.36.213V1240-2015
UNKNOWN	Japan	Pending	Power sharing and power headroom reporting in dual connectivity scenarios	ATIS.3GPP.36.213V1240-2015
UNKNOWN	Sri Lanka	Pending	Power sharing and power headroom reporting in dual connectivity scenarios	ATIS.3GPP.36.213V1240-2015
TN2016/0330	Tunisia	Pending	Power sharing and power headroom reporting in dual connectivity scenarios	ATIS.3GPP.36.213V1240-2015
PCT/US2015/023202	Patent Cooperation Treaty	Pending	Power sharing and power headroom reporting in dual connectivity scenarios	ATIS.3GPP.36.213V1240-2015
14/596,146	United States	Pending	Resource allocation control for long term evolution device-to-device discovery	ATIS.3GPP.24.334V1211-2016
PCT/US2015/024046	Patent Cooperation Treaty	Pending	Resource allocation control for long term evolution device-to-device discovery	ATIS.3GPP.24.334V1211-2016
14/656,589	United States	Pending	Cell ID management for discovery reference signals for small cells in LTE	ATIS.3GPP.36.213V1240-2015
PCT/US2015/020565	Patent Cooperation Treaty	Pending	Cell ID management for discovery reference signals for small cells in LTE	ATIS.3GPP.36.213V1240-2015
14/656,589	United States	Pending	Cell ID management for discovery reference signals for small cells in LTE	ATIS.3GPP.36.331V8210-2016
PCT/US2015/020565	Patent Cooperation Treaty	Pending	Cell ID management for discovery reference signals for small cells in LTE	ATIS.3GPP.36.331V8210-2016
14/569,369	United States	Pending	Reducing battery consumption at a user equipment	ATIS.3GPP.25.212V880-2016
PCT/US2015/027279	Patent Cooperation Treaty	Pending	Reducing battery consumption at a user equipment	ATIS.3GPP.25.212V880-2016
14/706,549	United States	Pending	UE autonomous radio resource configuration extension	ATIS.3GPP.36.133V1260-2015
PCT/US2015/029944	Patent Cooperation Treaty	Pending	UE AUTONOMOUS RADIO RESOURCE CONFIGURATION EXTENSION	ATIS.3GPP.36.133V1260-2015
14/706,856	United States	Pending	HD-FDD HARQ operation	ATIS.3GPP.36.101V8260-2016
PCT/US2015/029917	Patent Cooperation Treaty	Pending	HD-FDD HARQ operation	ATIS.3GPP.36.101V8260-2016
14/706,539	United States	Pending	Wireless local area network offloading through radio access network rules	ATIS.3GPP.23.060V8170-2014
104114758	Taiwan	Pending	Wireless local area network offloading through radio access network rules	ATIS.3GPP.23.060V8170-2014
PCT/US2015/029841	Patent Cooperation Treaty	Pending	Wireless local area network offloading through radio access network rules	ATIS.3GPP.23.060V8170-2014
14/673,487	United States	Pending	Techniques for reporting power headroom in multiple connectivity wireless communications	ATIS.3GPP.36.213V1240-2015
PCT/US2015/028288	Patent Cooperation Treaty	Pending	TECHNIQUES FOR REPORTING POWER HEADROOM IN MULTIPLE CONNECTIVITY WIRELESS COMMUNICATIONS	ATIS.3GPP.36.213V1240-2015
14/673,487	United States	Pending	Techniques for reporting power headroom in multiple connectivity wireless communications	ATIS.3GPP.36.321V8120-2014
PCT/US2015/028288	Patent Cooperation Treaty	Pending	TECHNIQUES FOR REPORTING POWER HEADROOM IN MULTIPLE CONNECTIVITY WIRELESS COMMUNICATIONS	ATIS.3GPP.36.321V8120-2014

14/695,998	United States	Pending	Techniques for scaling bandwidth of an unlicensed radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
PCT/US2015/037006	Patent Cooperation Treaty	Pending	Techniques for scaling bandwidth of an unlicensed radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
9,398,501	United States	Granted	Techniques for resolving conflicting rules in measuring cells for reselection	ATIS.3GPP.36.304V8100-2012
PCT/US2016/015151	Patent Cooperation Treaty	Pending	Techniques for resolving conflicting rules in measuring cells for reselection	ATIS.3GPP.36.304V8100-2012
14/743,825	United States	Pending	Method and apparatus for reducing self-jamming of transmissions on adjacent carriers	ATIS.3GPP.36.213V1240-2015
104120098	Taiwan	Pending	Method and apparatus for reducing self-jamming of transmissions on adjacent carriers	ATIS.3GPP.36.213V1240-2015
PCT/US2015/036822	Patent Cooperation Treaty	Pending	Method and apparatus for reducing self-jamming of transmissions on adjacent carriers	ATIS.3GPP.36.213V1240-2015
14/738,629	United States	Pending	SRS in dual connectivity	ATIS.3GPP.36.213V1240-2015
PCT/US2015/036214	Patent Cooperation Treaty	Pending	Methods and apparatuses for dealing with SRS in dual connectivity	ATIS.3GPP.36.213V1240-2015
14/742,442	United States	Pending	Techniques for reporting timing differences in multiple connectivity wireless communications	ATIS.3GPP.36.331V8210-2016
PCT/US2015/036443	Patent Cooperation Treaty	Pending	TECHNIQUES FOR REPORTING TIMING DIFFERENCES IN MULTIPLE CONNECTIVITY WIRELESS COMMUNICATIONS	ATIS.3GPP.36.331V8210-2016
14/849,322	United States	Pending	Techniques for optimizing HTTP implementation as a transport protocol for EPC-level proximity services (ProSe) discovery	ATIS.3GPP.24.334V1211-2016
PCT/US2015/049460	Patent Cooperation Treaty	Pending	Techniques for optimizing HTTP implementation as a transport protocol for EPC-level proximity services (ProSe) discovery	ATIS.3GPP.24.334V1211-2016
14/729,753	United States	Pending	Type 1 and type 2 hopping for device-to-device communications	ATIS.3GPP.36.213V1240-2015
PCT/US2015/034121	Patent Cooperation Treaty	Pending	Type 1 and type 2 hopping for device-to-device communications	ATIS.3GPP.36.213V1240-2015
14/801,434	United States	Pending	Resource management for UEs under coverage enhancement	ATIS.3GPP.36.213V1240-2015
PCT/US2015/040952	Patent Cooperation Treaty	Pending	Resource management for UEs under coverage enhancement	ATIS.3GPP.36.213V1240-2015
14/735,819	United States	Pending	Techniques for prioritizing transmissions in multiple connectivity wireless communications	ATIS.3GPP.36.213V1240-2015
PCT/US2015/035280	Patent Cooperation Treaty	Pending	Techniques for prioritizing transmissions in multiple connectivity wireless communications	ATIS.3GPP.36.213V1240-2015
14/819,620	United States	Pending	Techniques for transmitting and receiving synchronization signals over an unlicensed radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
104126854	Taiwan	Pending	Techniques for transmitting and receiving synchronization signals over an unlicensed radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
PCT/US2015/044250	Patent Cooperation Treaty	Pending	Techniques for transmitting and receiving synchronization signals over an unlicensed radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
14/819,620	United States	Pending	Techniques for transmitting and receiving synchronization signals over an unlicensed radio frequency spectrum band	ATIS.3GPP.36.331V8210-2016
104126854	Taiwan	Pending	Techniques for transmitting and receiving synchronization signals over an unlicensed radio frequency spectrum band	ATIS.3GPP.36.331V8210-2016
PCT/US2015/044250	Patent Cooperation Treaty	Pending	Techniques for transmitting and receiving synchronization signals over an unlicensed radio frequency spectrum band	ATIS.3GPP.36.331V8210-2016
14/818,107	United States	Pending	Timing alignment procedures for dual PUCCH	ATIS.3GPP.36.321V8120-2014

PCT/US2015/043787	Patent Cooperation Treaty	Pending	Timing alignment procedures for dual PUCCH	ATIS.3GPP.36.321V8120-2014
14/819,843	United States	Pending	Device-to-device capability signaling	ATIS.3GPP.36.306V890-2014
PCT/US2015/044247	Patent Cooperation Treaty	Pending	Device-to-device capability signaling	ATIS.3GPP.36.306V890-2014
14/819,843	United States	Pending	Device-to-device capability signaling	ATIS.3GPP.36.331V8210-2016
PCT/US2015/044247	Patent Cooperation Treaty	Pending	Device-to-device capability signaling	ATIS.3GPP.36.331V8210-2016
14/818,141	United States	Pending	Ran procedures for extended discontinuous reception (DRX)	ATIS.3GPP.36.304V8100-2012
PCT/US2015/043764	Patent Cooperation Treaty	Pending	Ran procedures for extended discontinuous reception (DRX)	ATIS.3GPP.36.304V8100-2012
14/818,141	United States	Pending	Ran procedures for extended discontinuous reception (DRX)	ATIS.3GPP.36.331V8210-2016
PCT/US2015/043764	Patent Cooperation Treaty	Pending	Ran procedures for extended discontinuous reception (DRX)	ATIS.3GPP.36.331V8210-2016
14/818,824	United States	Pending	Linked narrowband operation for MTC	ATIS.3GPP.36.213V1240-2015
PCT/US2015/043950	Patent Cooperation Treaty	Pending	Linked narrowband operation for MTC	ATIS.3GPP.36.213V1240-2015
14/818,824	United States	Pending	Linked narrowband operation for MTC	ATIS.3GPP.36.304V8100-2012
PCT/US2015/043950	Patent Cooperation Treaty	Pending	Linked narrowband operation for MTC	ATIS.3GPP.36.304V8100-2012
14/818,835	United States	Pending	IDLE-MODE ENHANCEMENTS FOR EXTENDED IDLE DISCONTINUOUS RECEPTION (EIDRX)	ATIS.3GPP.36.304V8100-2012
PCT/US2015/043918	Patent Cooperation Treaty	Pending	IDLE-MODE ENHANCEMENTS FOR EXTENDED IDLE DISCONTINUOUS RECEPTION	ATIS.3GPP.36.304V8100-2012
14/808,154	United States	Pending	Group priority handling for wireless communication	ATIS.3GPP.36.321V8120-2014
PCT/US2015/042257	Patent Cooperation Treaty	Pending	Group priority handling for direct mode resource pools in wireless communications	ATIS.3GPP.36.321V8120-2014
14/808,154	United States	Pending	Group priority handling for wireless communication	ATIS.3GPP.36.331V8210-2016
PCT/US2015/042257	Patent Cooperation Treaty	Pending	Group priority handling for direct mode resource pools in wireless communications	ATIS.3GPP.36.331V8210-2016
14/861,700	United States	Pending	Methods and apparatus for using enhancements for diverse data applications (eDDA)/power preference indication (PPI)	ATIS.3GPP.36.331V8210-2016
3163/MUM/2014	India	Pending	Methods and apparatus for using enhancements for diverse data applications (EDDA)/power preference indication (PPI)	ATIS.3GPP.36.331V8210-2016
PCT/US2015/051633	Patent Cooperation Treaty	Pending	METHODS AND APPARATUS FOR USING ENHANCEMENTS FOR DIVERSE DATA APPLICATIONS (eDDA)/POWER PREFERENCE INDICATION (PPI)	ATIS.3GPP.36.331V8210-2016
14/801,621	United States	Pending	Enhanced transmission of control channel signaling over UMTS	ATIS.3GPP.25.214V8130-2014
PCT/US2015/050427	Patent Cooperation Treaty	Pending	ENHANCED TRANSMISSION OF CONTROL CHANNEL SIGNALING OVER UMTS	ATIS.3GPP.25.214V8130-2014
14/866,455	United States	Pending	TECHNIQUES FOR TRANSMITTING A CONTROL CHANNEL AND A DATA CHANNEL OVER MULTIPLE COMPONENT CARRIERS	ATIS.3GPP.36.331V8210-2016
PCT/US2015/052680	Patent Cooperation Treaty	Pending	Techniques for transmitting a control channel and a data channel over multiple component carriers	ATIS.3GPP.36.331V8210-2016
14/861,749	United States	Pending	PRACH transmission power adjustment	ATIS.3GPP.36.213V1240-2015
PCT/US2015/051822	Patent Cooperation Treaty	Pending	METHOD AND APPARATUS FOR PRACH TRANSMISSION POWER ADJUSTMENT	ATIS.3GPP.36.213V1240-2015
14/861,749	United States	Pending	PRACH transmission power adjustment	ATIS.3GPP.36.321V8120-2014
PCT/US2015/051822	Patent Cooperation Treaty	Pending	METHOD AND APPARATUS FOR PRACH TRANSMISSION POWER ADJUSTMENT	ATIS.3GPP.36.321V8120-2014
14/866,381	United States	Pending	TECHNIQUES FOR TRANSMITTING SYNCHRONIZATION SIGNALS IN A SHARED RADIO FREQUENCY SPECTRUM BAND	ATIS.3GPP.36.211V1240-2015
PCT/US2015/052656	Patent Cooperation Treaty	Pending	Techniques for transmitting synchronization signals in a shared radio frequency spectrum band	ATIS.3GPP.36.211V1240-2015

14/887,292	United States	Pending	TRANSPORT BLOCK SIZE DETERMINATION	ATIS.3GPP.36.213V1240-2015
PCT/US2015/056353	Patent Cooperation Treaty	Pending	Transport block size determination	ATIS.3GPP.36.213V1240-2015
14/886,898	United States	Pending	CONTROL CHANNEL DESIGN FOR MACHINE TYPE COMMUNICATIONS	ATIS.3GPP.36.213V1240-2015
PCT/US2015/056409	Patent Cooperation Treaty	Pending	Control channel design for machine type communications	ATIS.3GPP.36.213V1240-2015
14/932,558	United States	Pending	METHODS AND APPARATUS FOR COMMUNICATING EXTENDED FREQUENCY CHANNEL NUMBERS	ATIS.3GPP.44.018V8170-2014
PCT/US2015/059334	Patent Cooperation Treaty	Pending	COMMUNICATING EXTENDED FREQUENCY CHANNEL NUMBERS IN GERAN	ATIS.3GPP.44.018V8170-2014
14/927,210	United States	Pending	NARROWBAND CONTROL CHANNEL DECODING	ATIS.3GPP.36.213V1240-2015
PCT/US2015/058271	Patent Cooperation Treaty	Pending	NARROWBAND CONTROL CHANNEL DECODING	ATIS.3GPP.36.213V1240-2015
14/858,993	United States	Pending	Rate matching around reference signals in wireless communications	ATIS.3GPP.36.211V1240-2015
PCT/US2015/051215	Patent Cooperation Treaty	Pending	Rate matching around reference signals in wireless communications	ATIS.3GPP.36.211V1240-2015
14/858,993	United States	Pending	Rate matching around reference signals in wireless communications	ATIS.3GPP.36.213V1240-2015
PCT/US2015/051215	Patent Cooperation Treaty	Pending	Rate matching around reference signals in wireless communications	ATIS.3GPP.36.213V1240-2015
14/934,733	United States	Pending	PHYSICAL BROADCAST CHANNEL FOR COVERAGE ENHANCEMENT	ATIS.3GPP.36.211V1240-2015
PCT/US2015/059757	Patent Cooperation Treaty	Pending	PHYSICAL BROADCAST CHANNEL FOR COVERAGE ENHANCEMENT	ATIS.3GPP.36.211V1240-2015
14/926,630	United States	Pending	PUCCH for MTC devices	ATIS.3GPP.36.213V1240-2015
PCT/US2015/058292	Patent Cooperation Treaty	Pending	PUCCH FOR MTC DEVICES	ATIS.3GPP.36.213V1240-2015
14/928,899	United States	Pending	Techniques for managing services following an authentication failure in a wireless communication system	ATIS.3GPP.24.008V8190-2014
PCT/US2015/058598	Patent Cooperation Treaty	Pending	Techniques for managing services following an authentication failure in a wireless communication system	ATIS.3GPP.24.008V8190-2014
14/928,899	United States	Pending	Techniques for managing services following an authentication failure in a wireless communication system	ATIS.3GPP.24.301V8100-2012
PCT/US2015/058598	Patent Cooperation Treaty	Pending	Techniques for managing services following an authentication failure in a wireless communication system	ATIS.3GPP.24.301V8100-2012
14/842,194	United States	Pending	METHOD AND APPARATUS FOR POWER CONTROL IN D2D/WAN COEXISTENCE NETWORKS	ATIS.3GPP.36.213V1240-2015
SP-177-2016	Bolivia	Pending	METHOD AND APPARATUS FOR POWER CONTROL IN D2D/WAN COEXISTENCE NETWORKS	ATIS.3GPP.36.213V1240-2015
158/2016	Jordan	Pending	METHOD AND APPARATUS FOR POWER CONTROL IN D2D/WAN COEXISTENCE NETWORKS	ATIS.3GPP.36.213V1240-2015
MU/P/16/00271	Mauritius	Pending	METHOD AND APPARATUS FOR POWER CONTROL IN D2D/WAN COEXISTENCE NETWORKS	ATIS.3GPP.36.213V1240-2015
48993/2016	Paraguay	Pending	METHOD AND APPARATUS FOR POWER CONTROL IN D2D/WAN COEXISTENCE NETWORKS	ATIS.3GPP.36.213V1240-2015
105123710	Taiwan	Pending	Method and apparatus for power control in D2D/WAN coexistence networks	ATIS.3GPP.36.213V1240-2015
36.837	Uruguay	Pending	METHOD AND APPARATUS FOR POWER CONTROL IN D2D/WAN COEXISTENCE NETWORKS	ATIS.3GPP.36.213V1240-2015
PCT/US2016/044111	Patent Cooperation Treaty	Pending	Method and apparatus for power control in D2D/WAN coexistence networks	ATIS.3GPP.36.213V1240-2015
904	Yemen	Pending	METHOD AND APPARATUS FOR POWER CONTROL IN D2D/WAN COEXISTENCE NETWORKS	ATIS.3GPP.36.213V1240-2015
14/971,082	United States	Pending	Techniques for determining a symbol period for a starting symbol of a transmission in a shared radio frequency spectrum	ATIS.3GPP.36.211V1240-2015

104142766	Taiwan	Pending	Techniques for determining a symbol period for a starting symbol of a transmission in a shared radio frequency spectrum	ATIS.3GPP.36.211V1240-2015
PCT/US2015/066458	Patent Cooperation Treaty	Pending	Techniques for determining a symbol period for a starting symbol of a transmission in a shared radio frequency spectrum	ATIS.3GPP.36.211V1240-2015
14/971,082	United States	Pending	Techniques for determining a symbol period for a starting symbol of a transmission in a shared radio frequency spectrum	ATIS.3GPP.36.213V1240-2015
104142766	Taiwan	Pending	Techniques for determining a symbol period for a starting symbol of a transmission in a shared radio frequency spectrum	ATIS.3GPP.36.213V1240-2015
PCT/US2015/066458	Patent Cooperation Treaty	Pending	Techniques for determining a symbol period for a starting symbol of a transmission in a shared radio frequency spectrum	ATIS.3GPP.36.213V1240-2015
15/009,730	United States	Pending	Timing information for discovery in unlicensed spectrum	ATIS.3GPP.36.211V1240-2015
PCT/US2016/015761	Patent Cooperation Treaty	Pending	Timing information for discovery in unlicensed spectrum	ATIS.3GPP.36.211V1240-2015
15/009,730	United States	Pending	Timing information for discovery in unlicensed spectrum	ATIS.3GPP.36.213V1240-2015
PCT/US2016/015761	Patent Cooperation Treaty	Pending	Timing information for discovery in unlicensed spectrum	ATIS.3GPP.36.213V1240-2015
15/004,504	United States	Pending	Uplink control channel for acknowledging increased number of downlink component carriers	ATIS.3GPP.36.211V1240-2015
105102385	Taiwan	Pending	Uplink control channel for acknowledging increased number of downlink component carriers	ATIS.3GPP.36.211V1240-2015
PCT/US2016/014756	Patent Cooperation Treaty	Pending	Uplink control channel for acknowledging increased number of downlink component carriers	ATIS.3GPP.36.211V1240-2015
15/004,504	United States	Pending	Uplink control channel for acknowledging increased number of downlink component carriers	ATIS.3GPP.36.213V1240-2015
105102385	Taiwan	Pending	Uplink control channel for acknowledging increased number of downlink component carriers	ATIS.3GPP.36.213V1240-2015
PCT/US2016/014756	Patent Cooperation Treaty	Pending	Uplink control channel for acknowledging increased number of downlink component carriers	ATIS.3GPP.36.213V1240-2015
15/006,769	United States	Pending	Relay signaling between UE and network	ATIS.3GPP.36.331V8210-2016
PCT/US2016/015822	Patent Cooperation Treaty	Pending	Relay signaling between UE and network	ATIS.3GPP.36.331V8210-2016
15/009,739	United States	Pending	ENHANCED PAGING PROCEDURES FOR MACHINE TYPE COMMUNICATIONS (MTC)	ATIS.3GPP.36.304V8100-2012
105102911	Taiwan	Pending	Enhanced paging procedures for machine type communications (MTC)	ATIS.3GPP.36.304V8100-2012
PCT/US2016/015543	Patent Cooperation Treaty	Pending	Enhanced paging procedures for machine type communications (MTC)	ATIS.3GPP.36.304V8100-2012
15/009,739	United States	Pending	ENHANCED PAGING PROCEDURES FOR MACHINE TYPE COMMUNICATIONS (MTC)	ATIS.3GPP.36.331V8210-2016
105102911	Taiwan	Pending	Enhanced paging procedures for machine type communications (MTC)	ATIS.3GPP.36.331V8210-2016
PCT/US2016/015543	Patent Cooperation Treaty	Pending	Enhanced paging procedures for machine type communications (MTC)	ATIS.3GPP.36.331V8210-2016
15/019,767	United States	Pending	Techniques for managing a plurality of radio access technologies accessing a shared radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
PCT/US2016/017359	Patent Cooperation Treaty	Pending	Techniques for managing a plurality of radio access technologies accessing a shared radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
14/997,665	United States	Pending	CSI MEASUREMENT UNDER COVERAGE ENHANCEMENTS IN LTE	ATIS.3GPP.36.213V1240-2015
105101729	Taiwan	Pending	CSI measurement under coverage enhancements in LTE	ATIS.3GPP.36.213V1240-2015
PCT/US2016/013895	Patent Cooperation Treaty	Pending	CSI measurement under coverage enhancements in LTE	ATIS.3GPP.36.213V1240-2015

15/009,804	United States	Pending	RANDOM ACCESS PROCEDURE AND BROADCAST PRIORITIZATION FOR MACHINE TYPE COMMUNICATIONS (MTC)	ATIS.3GPP.36.304V8100-2012
P160100268	Argentina	Pending	Random Access procedure and broadcast prioritization for Low Cost MTC	ATIS.3GPP.36.304V8100-2012
105102912	Taiwan	Pending	Random Access procedure and broadcast prioritization for Low Cost MTC	ATIS.3GPP.36.304V8100-2012
PCT/US2016/015523	Patent Cooperation Treaty	Pending	Random access procedure and broadcast prioritization for machine type communications (MTC)	ATIS.3GPP.36.304V8100-2012
15/009,804	United States	Pending	RANDOM ACCESS PROCEDURE AND BROADCAST PRIORITIZATION FOR MACHINE TYPE COMMUNICATIONS (MTC)	ATIS.3GPP.36.321V8120-2014
P160100268	Argentina	Pending	Random Access procedure and broadcast prioritization for Low Cost MTC	ATIS.3GPP.36.321V8120-2014
105102912	Taiwan	Pending	Random Access procedure and broadcast prioritization for Low Cost MTC	ATIS.3GPP.36.321V8120-2014
PCT/US2016/015523	Patent Cooperation Treaty	Pending	Random access procedure and broadcast prioritization for machine type communications (MTC)	ATIS.3GPP.36.321V8120-2014
15/009,804	United States	Pending	RANDOM ACCESS PROCEDURE AND BROADCAST PRIORITIZATION FOR MACHINE TYPE COMMUNICATIONS (MTC)	ATIS.3GPP.36.331V8210-2016
P160100268	Argentina	Pending	Random Access procedure and broadcast prioritization for Low Cost MTC	ATIS.3GPP.36.331V8210-2016
105102912	Taiwan	Pending	Random Access procedure and broadcast prioritization for Low Cost MTC	ATIS.3GPP.36.331V8210-2016
PCT/US2016/015523	Patent Cooperation Treaty	Pending	Random access procedure and broadcast prioritization for machine type communications (MTC)	ATIS.3GPP.36.331V8210-2016
15/004,672	United States	Pending	RRM BASED ON SIGNAL STRENGTH MEASUREMENTS IN LTE OVER UNLICENSED SPECTRUM	ATIS.3GPP.36.331V8210-2016
105102253	Taiwan	Pending	RRM based on signal strength measurements in LTE over unlicensed spectrum	ATIS.3GPP.36.331V8210-2016
PCT/US2016/014737	Patent Cooperation Treaty	Pending	RRM based on signal strength measurements in LTE over unlicensed spectrum	ATIS.3GPP.36.331V8210-2016
15/054,190	United States	Pending	Indication for Partial Segment	ATIS.3GPP.26.946V800-2010
PCT/US2016/020097	Patent Cooperation Treaty	Pending	Indication for partial segment	ATIS.3GPP.26.946V800-2010
15/054,214	United States	Pending	Indication for Partial Segment	ATIS.3GPP.26.946V800-2010
PCT/US2016/020092	Patent Cooperation Treaty	Pending	Indication for partial segment	ATIS.3GPP.26.946V800-2010
15/054,226	United States	Pending	Indication for Partial Segment	ATIS.3GPP.26.946V800-2010
PCT/US2016/020083	Patent Cooperation Treaty	Pending	Indication for partial segment	ATIS.3GPP.26.946V800-2010
15/040,907	United States	Pending	SERVICE TYPE INDICATOR IN MASTER INFORMATION BLOCK (MIB)	ATIS.3GPP.36.211V1240-2015
105104326	Taiwan	Pending	Service type indicator in master information block (MIB)	ATIS.3GPP.36.211V1240-2015
PCT/US2016/017581	Patent Cooperation Treaty	Pending	Service type indicator in master information block (MIB)	ATIS.3GPP.36.211V1240-2015
15/052,471	United States	Pending	Narrowband management for machine type communications	ATIS.3GPP.36.211V1240-2015
PCT/US2016/019527	Patent Cooperation Treaty	Pending	Narrowband management for machine type communications	ATIS.3GPP.36.211V1240-2015
15/059,075	United States	Pending	REPETITION LEVEL COVERAGE ENHANCEMENT TECHNIQUES FOR PHYSICAL RANDOM ACCESS CHANNEL TRANSMISSIONS	ATIS.3GPP.36.213V1240-2015
105106574	Taiwan	Pending	Repetition level coverage enhancement techniques for physical random access channel transmissions	ATIS.3GPP.36.213V1240-2015
PCT/US2016/020970	Patent Cooperation Treaty	Pending	Repetition level coverage enhancement techniques for physical random access channel transmissions	ATIS.3GPP.36.213V1240-2015
15/042,348	United States	Pending	User equipment testing techniques for device-to-device transmission channels	ATIS.3GPP.36.509V870-2012

PCT/US2016/017949	Patent Cooperation Treaty	Pending	User equipment testing techniques for device-to-device transmission channels	ATIS.3GPP.36.509V870-2012
15/061,953	United States	Pending	SCHEDULING ENHANCEMENTS FOR CONTENTION-BASED SHARED FREQUENCY SPECTRUM	ATIS.3GPP.36.213V1240-2015
105107349	Taiwan	Pending	Scheduling enhancements for contention-based shared frequency spectrum	ATIS.3GPP.36.213V1240-2015
PCT/US2016/021817	Patent Cooperation Treaty	Pending	SCHEDULING ENHANCEMENTS FOR CONTENTION-BASED SHARED FREQUENCY SPECTRUM EMPLOYING UPLINK CROSS-CARRIER SCHEDULING	ATIS.3GPP.36.213V1240-2015
15/074,370	United States	Pending	Inter frequency LTE-d discovery	ATIS.3GPP.36.213V1240-2015
105108700	Taiwan	Pending	Inter frequency LTE-D discovery	ATIS.3GPP.36.213V1240-2015
PCT/US2016/023417	Patent Cooperation Treaty	Pending	Inter frequency LTE-D discovery	ATIS.3GPP.36.213V1240-2015
15/074,370	United States	Pending	Inter frequency LTE-d discovery	ATIS.3GPP.36.331V8210-2016
105108700	Taiwan	Pending	Inter frequency LTE-D discovery	ATIS.3GPP.36.331V8210-2016
PCT/US2016/023417	Patent Cooperation Treaty	Pending	Inter frequency LTE-D discovery	ATIS.3GPP.36.331V8210-2016
15/061,896	United States	Pending	Configuration by ENB for D2D UE to network relay search	ATIS.3GPP.36.331V8210-2016
PCT/US2016/021270	Patent Cooperation Treaty	Pending	Configuration by ENB for D2D UE to network relay search	ATIS.3GPP.36.331V8210-2016
15/087,520	United States	Pending	Reducing blind decoding in enhanced carrier aggregation	ATIS.3GPP.36.213V1240-2015
PCT/US2016/025613	Patent Cooperation Treaty	Pending	Reducing blind decoding in enhanced carrier aggregation	ATIS.3GPP.36.213V1240-2015
15/048,463	United States	Pending	Proximity service signaling protocol	ATIS.3GPP.24.334V1211-2016
105105153	Taiwan	Pending	Proximity service signaling protocol	ATIS.3GPP.24.334V1211-2016
PCT/US2016/018851	Patent Cooperation Treaty	Pending	Proximity service signaling protocol	ATIS.3GPP.24.334V1211-2016
15/061,263	United States	Pending	Enabling device-to-device discovery	ATIS.3GPP.36.331V8210-2016
105106930	Taiwan	Pending	Enabling device-to-device discovery	ATIS.3GPP.36.331V8210-2016
PCT/US2016/021256	Patent Cooperation Treaty	Pending	Enabling device-to-device discovery	ATIS.3GPP.36.331V8210-2016
15/065,552	United States	Pending	Relay discovery and association messages	ATIS.3GPP.36.300V8120-2010
105107575	Taiwan	Pending	Relay discovery and association messages	ATIS.3GPP.36.300V8120-2010
PCT/US2016/021788	Patent Cooperation Treaty	Pending	Relay discovery and association messages	ATIS.3GPP.36.300V8120-2010
15/061,092	United States	Pending	Selection of proximity services relay	ATIS.3GPP.24.334V1211-2016
105106926	Taiwan	Pending	Selection of proximity services relay	ATIS.3GPP.24.334V1211-2016
PCT/US2016/021166	Patent Cooperation Treaty	Pending	Selection of proximity services relay	ATIS.3GPP.24.334V1211-2016
15/061,092	United States	Pending	Selection of proximity services relay	ATIS.3GPP.36.300V8120-2010
105106926	Taiwan	Pending	Selection of proximity services relay	ATIS.3GPP.36.300V8120-2010
PCT/US2016/021166	Patent Cooperation Treaty	Pending	Selection of proximity services relay	ATIS.3GPP.36.300V8120-2010
15/070,990	United States	Pending	Enhanced carrier aggregation activation and scheduling request procedures	ATIS.3GPP.36.321V8120-2014
PCT/US2016/024874	Patent Cooperation Treaty	Pending	Enhanced carrier aggregation activation and scheduling request procedures	ATIS.3GPP.36.321V8120-2014
15/080,462	United States	Pending	Systems, methods, and apparatus for managing a relay connection in a wireless communications network	ATIS.3GPP.36.300V8120-2010
PCT/US2016/024342	Patent Cooperation Treaty	Pending	Systems, methods, and apparatus for managing a relay connection in a wireless communications network	ATIS.3GPP.36.300V8120-2010
15/080,462	United States	Pending	Systems, methods, and apparatus for managing a relay connection in a wireless communications network	ATIS.3GPP.36.331V8210-2016

PCT/US2016/024342	Patent Cooperation Treaty	Pending	Systems, methods, and apparatus for managing a relay connection in a wireless communications network	ATIS.3GPP.36.331V8210-2016
15/089,528	United States	Pending	Random access procedures under coverage limitations	ATIS.3GPP.36.321V8120-2014
105110798	Taiwan	Pending	Random access procedures under coverage limitations	ATIS.3GPP.36.321V8120-2014
PCT/US2016/025797	Patent Cooperation Treaty	Pending	Random access procedures under coverage limitations	ATIS.3GPP.36.321V8120-2014
15/089,528	United States	Pending	Random access procedures under coverage limitations	ATIS.3GPP.36.331V8210-2016
105110798	Taiwan	Pending	Random access procedures under coverage limitations	ATIS.3GPP.36.331V8210-2016
PCT/US2016/025797	Patent Cooperation Treaty	Pending	Random access procedures under coverage limitations	ATIS.3GPP.36.331V8210-2016
15/097,428	United States	Pending	Narrowband dependent subframe availability for MTC	ATIS.3GPP.36.213V1240-2015
PCT/US2016/027560	Patent Cooperation Treaty	Pending	Narrowband dependent subframe availability for MTC	ATIS.3GPP.36.213V1240-2015
15/076,087	United States	Pending	Method and apparatus for securing structured proximity service codes for restricted discovery	ATIS.3GPP.36.211V1240-2015
105108848	Taiwan	Pending	Method and apparatus for securing structured proximity service codes for restricted discovery	ATIS.3GPP.36.211V1240-2015
PCT/US2016/023543	Patent Cooperation Treaty	Pending	Method and apparatus for securing structured proximity service codes for restricted discovery	ATIS.3GPP.36.211V1240-2015
15/094,334	United States	Pending	SIMULTANEOUS NARROWBAND TRANSMISSION/RECEPTION IN ENHANCED MACHINE TYPE COMMUNICATIONS	ATIS.3GPP.36.211V1240-2015
PCT/US2016/026845	Patent Cooperation Treaty	Pending	Simultaneous narrowband transmission/reception in enhanced machine type communications	ATIS.3GPP.36.211V1240-2015
15/132,988	United States	Pending	Configurable random access initial power level selection	ATIS.3GPP.36.331V8210-2016
PCT/US2016/028389	Patent Cooperation Treaty	Pending	Configurable random access initial power level selection	ATIS.3GPP.36.331V8210-2016
15/132,729	United States	Pending	CONTROL CHANNEL BASED BROADCAST MESSAGING	ATIS.3GPP.36.212V1230-2015
105112324	Taiwan	Pending	Control channel based broadcast messaging	ATIS.3GPP.36.212V1230-2015
PCT/US2016/028404	Patent Cooperation Treaty	Pending	Control channel based broadcast messaging	ATIS.3GPP.36.212V1230-2015
15/133,776	United States	Pending	System type dependent master information block (MIB)	ATIS.3GPP.36.211V1240-2015
PCT/US2016/028567	Patent Cooperation Treaty	Pending	System type dependent master information block (MIB)	ATIS.3GPP.36.211V1240-2015
15/140,847	United States	Pending	Physical uplink control channel management for PUCCH secondary cell in carrier aggregation	ATIS.3GPP.36.213V1240-2015
15/077,855	United States	Pending	Techniques for paging in extended discontinuous reception	ATIS.3GPP.36.304V8100-2012
105109054	Taiwan	Pending	Techniques for paging in extended discontinuous reception	ATIS.3GPP.36.304V8100-2012
PCT/US2016/023685	Patent Cooperation Treaty	Pending	Techniques for paging in extended discontinuous reception	ATIS.3GPP.36.304V8100-2012
15/077,855	United States	Pending	Techniques for paging in extended discontinuous reception	ATIS.3GPP.36.331V8210-2016
105109054	Taiwan	Pending	Techniques for paging in extended discontinuous reception	ATIS.3GPP.36.331V8210-2016
PCT/US2016/023685	Patent Cooperation Treaty	Pending	Techniques for paging in extended discontinuous reception	ATIS.3GPP.36.331V8210-2016
15/138,769	United States	Pending	RRM MEASUREMENT AND REPORTING FOR LICENSE ASSISTED ACCESS	ATIS.3GPP.36.331V8210-2016
PCT/US2016/029516	Patent Cooperation Treaty	Pending	RRM measurement and reporting for license assisted access	ATIS.3GPP.36.331V8210-2016
15/148,818	United States	Pending	CELL SELECTION PROCEDURES FOR MACHINE TYPE COMMUNICATION DEVICES	ATIS.3GPP.36.304V8100-2012
PCT/US2016/031510	Patent Cooperation Treaty	Pending	Cell selection procedures for machine type communication devices	ATIS.3GPP.36.304V8100-2012
14/969,612	United States	Pending	DYNAMIC EVOLVED PACKET GATEWAY SELECTION	ATIS.3GPP.24.302V8100-2012
PCT/US2016/020121	Patent Cooperation Treaty	Pending	Dynamic evolved packet data gateway (ePDG) selection	ATIS.3GPP.24.302V8100-2012

15/081,633	United States	Pending	Physical broadcast channel repetition for evolved machine type communication	ATIS.3GPP.36.211V1240-2015
PCT/US2016/024492	Patent Cooperation Treaty	Pending	Physical broadcast channel repetition for evolved machine type communication	ATIS.3GPP.36.211V1240-2015
15/067,029	United States	Pending	Narrowband definition for enhanced machine type communication	ATIS.3GPP.36.211V1240-2015
PCT/US2016/021936	Patent Cooperation Treaty	Pending	Narrowband definition for enhanced machine type communication	ATIS.3GPP.36.211V1240-2015
15/149,565	United States	Pending	PHYSICAL UPLINK CONTROL CHANEL (PUCCH) CONFIGURATION FOR MACHINE TYPE COMMUNICATIONS (MTC)	ATIS.3GPP.36.211V1240-2015
PCT/US2016/031555	Patent Cooperation Treaty	Pending	Physical uplink control channel (PUCCH) configuration for machine type communications (MTC)	ATIS.3GPP.36.211V1240-2015
15/149,565	United States	Pending	PHYSICAL UPLINK CONTROL CHANEL (PUCCH) CONFIGURATION FOR MACHINE TYPE COMMUNICATIONS (MTC)	ATIS.3GPP.36.213V1240-2015
PCT/US2016/031555	Patent Cooperation Treaty	Pending	Physical uplink control channel (PUCCH) configuration for machine type communications (MTC)	ATIS.3GPP.36.213V1240-2015
15/153,516	United States	Pending	CLEAR CHANNEL ASSESSMENT PROCEDURE AT MASTER AND SLAVE DEVICES	ATIS.3GPP.36.213V1240-2015
105115010	Taiwan	Pending	Clear channel assessment procedure at master and slave devices	ATIS.3GPP.36.213V1240-2015
PCT/US2016/032476	Patent Cooperation Treaty	Pending	Clear channel assessment procedure at master and slave devices	ATIS.3GPP.36.213V1240-2015
15/158,483	United States	Pending	Unicast support in prose direct device-to-device communication	ATIS.3GPP.36.321V8120-2014
PCT/US2016/033625	Patent Cooperation Treaty	Pending	Unicast support in prose direct device-to-device communication	ATIS.3GPP.36.321V8120-2014
15/150,790	United States	Pending	Techniques for adjusting clear channel assessment (CCA) window for transmissions in a shared radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
62/236,827	United States	Pending	TECHNIQUES FOR ADJUSTING CLEAR CHANNEL ASSESSMENT (CCA) WINDOW FOR TRANSMISSIONS IN A SHARED RADIO FREQUENCY SPECTRUM BAND	ATIS.3GPP.36.213V1240-2015
105114590	Taiwan	Pending	Techniques for adjusting clear channel assessment (CCA) window for transmissions in a shared radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
PCT/US2016/031918	Patent Cooperation Treaty	Pending	Techniques for adjusting clear channel assessment (CCA) window for transmissions in a shared radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
15/164,386	United States	Pending	CYCLIC REDUNDANCY CHECK FOR UPLINK CONTROL INFORMATION ON CONTROL AND DATA CHANNELS	ATIS.3GPP.36.212V1230-2015
PCT/US2016/034423	Patent Cooperation Treaty	Pending	Cyclic redundancy check for uplink control information on control and data channels	ATIS.3GPP.36.212V1230-2015
15/178,253	United States	Pending	System information for enhanced machine type communication	ATIS.3GPP.36.213V1240-2015
105118626	Taiwan	Pending	System information for enhanced machine type communication	ATIS.3GPP.36.213V1240-2015
PCT/US2016/037212	Patent Cooperation Treaty	Pending	System information for enhanced machine type communication	ATIS.3GPP.36.213V1240-2015
15/157,612	United States	Pending	Techniques for transmitting on multiple carriers of a shared radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
105115612	Taiwan	Pending	Techniques for transmitting on multiple carriers of a shared radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
PCT/US2016/033332	Patent Cooperation Treaty	Pending	Techniques for transmitting on multiple carriers of a shared radio frequency spectrum band	ATIS.3GPP.36.213V1240-2015
15/191,089	United States	Pending	Periodic channel state information reporting for enhanced carrier aggregation	ATIS.3GPP.36.213V1240-2015
PCT/US2016/039364	Patent Cooperation Treaty	Pending	Periodic channel state information reporting for enhanced carrier aggregation	ATIS.3GPP.36.213V1240-2015
15/187,586	United States	Pending	Retuning for enhanced machine type communication	ATIS.3GPP.36.211V1240-2015

62/295,102	United States	Pending	RETUNING FOR ENHANCED MACHINE TYPE COMMUNICATION	ATIS.3GPP.36.211V1240-2015
PCT/US2016/038561	Patent Cooperation Treaty	Pending	Retuning for enhanced machine type communication	ATIS.3GPP.36.211V1240-2015
15/194,045	United States	Pending	Broadcast channel repetition	ATIS.3GPP.36.211V1240-2015
105120615	Taiwan	Pending	Broadcast channel repetition	ATIS.3GPP.36.211V1240-2015
PCT/US2016/039896	Patent Cooperation Treaty	Pending	Broadcast channel repetition	ATIS.3GPP.36.211V1240-2015
15/202,901	United States	Pending	Machine type communication (MTC) configuration, interference management, and retuning time for uplink transmissions	ATIS.3GPP.36.211V1240-2015
62/233,912	United States	Pending	MACHINE TYPE COMMUNICATION (MTC) CONFIGURATION, INTERFERENCE MANAGEMENT, AND RETUNING TIME FOR UPLINK TRANSMISSIONS	ATIS.3GPP.36.211V1240-2015
105121606	Taiwan	Pending	Machine type communication (MTC) configuration, interference management, and retuning time for uplink transmissions	ATIS.3GPP.36.211V1240-2015
PCT/US2016/041338	Patent Cooperation Treaty	Pending	Machine type communication (MTC) configuration, interference management, and retuning time for uplink transmissions	ATIS.3GPP.36.211V1240-2015
15/202,901	United States	Pending	Machine type communication (MTC) configuration, interference management, and retuning time for uplink transmissions	ATIS.3GPP.36.331V8210-2016
62/233,912	United States	Pending	MACHINE TYPE COMMUNICATION (MTC) CONFIGURATION, INTERFERENCE MANAGEMENT, AND RETUNING TIME FOR UPLINK TRANSMISSIONS	ATIS.3GPP.36.331V8210-2016
105121606	Taiwan	Pending	Machine type communication (MTC) configuration, interference management, and retuning time for uplink transmissions	ATIS.3GPP.36.331V8210-2016
PCT/US2016/041338	Patent Cooperation Treaty	Pending	Machine type communication (MTC) configuration, interference management, and retuning time for uplink transmissions	ATIS.3GPP.36.331V8210-2016
15/174,678	United States	Pending	Common search space for machine type communications	ATIS.3GPP.36.331V8210-2016
62/288,425	United States	Pending	COMMON SEARCH SPACE FOR MACHINE TYPE COMMUNICATIONS	ATIS.3GPP.36.331V8210-2016
105118006	Taiwan	Pending	Common search space for machine type communications	ATIS.3GPP.36.331V8210-2016
PCT/US2016/036149	Patent Cooperation Treaty	Pending	Common search space for machine type communications	ATIS.3GPP.36.331V8210-2016
8,767,629	United States	Granted	Method for triggering terminal to send sounding reference signal, terminal, and base station	ATIS.3GPP.36.212V1230-2015
9,148,879	United States	Granted	METHOD FOR TRIGGERING TERMINAL TO SEND SOUNDING REFERENCE SIGNAL, TERMINAL, AND BASE STATION	ATIS.3GPP.36.212V1230-2015
ZL201210057968.9	China P.R.	Granted	Method, terminal and base station for triggering terminal to transmit measurement reference signal	ATIS.3GPP.36.212V1230-2015
ZL201010502725.2	China P.R.	Granted	Method, terminal and base station for triggering terminal to transmit measurement reference signals	ATIS.3GPP.36.212V1230-2015
201180034147.7	China P.R.	Pending	METHOD, TERMINAL AND BASE STATION FOR TRIGGERING TERMINAL TO TRANSMIT SOUNDING REFERENCE SIGNAL	ATIS.3GPP.36.212V1230-2015
11780129.0	European Patent Convention	Pending	METHOD, TERMINAL AND BASE STATION FOR TRIGGERING TERMINAL TO TRANSMIT SOUNDING REFERENCE SIGNAL	ATIS.3GPP.36.212V1230-2015
8,767,629	United States	Granted	Method for triggering terminal to send sounding reference signal, terminal, and base station	ATIS.3GPP.36.213V1240-2015
9,148,879	United States	Granted	METHOD FOR TRIGGERING TERMINAL TO SEND SOUNDING REFERENCE SIGNAL, TERMINAL, AND BASE STATION	ATIS.3GPP.36.213V1240-2015
ZL201210057968.9	China P.R.	Granted	Method, terminal and base station for triggering terminal to transmit measurement reference signal	ATIS.3GPP.36.213V1240-2015

ZL201010502725.2	China P.R.	Granted	Method, terminal and base station for triggering terminal to transmit measurement reference signals	ATIS.3GPP.36.213V1240-2015
201180034147.7	China P.R.	Pending	METHOD, TERMINAL AND BASE STATION FOR TRIGGERING TERMINAL TO TRANSMIT SOUNDING REFERENCE SIGNAL	ATIS.3GPP.36.213V1240-2015
11780129.0	European Patent Convention	Pending	METHOD, TERMINAL AND BASE STATION FOR TRIGGERING TERMINAL TO TRANSMIT SOUNDING REFERENCE SIGNAL	ATIS.3GPP.36.213V1240-2015
8,767,629	United States	Granted	Method for triggering terminal to send sounding reference signal, terminal, and base station	ATIS.3GPP.36.331V8210-2016
9,148,879	United States	Granted	METHOD FOR TRIGGERING TERMINAL TO SEND SOUNDING REFERENCE SIGNAL, TERMINAL, AND BASE STATION	ATIS.3GPP.36.331V8210-2016
ZL201210057968.9	China P.R.	Granted	Method, terminal and base station for triggering terminal to transmit measurement reference signal	ATIS.3GPP.36.331V8210-2016
ZL201010502725.2	China P.R.	Granted	Method, terminal and base station for triggering terminal to transmit measurement reference signals	ATIS.3GPP.36.331V8210-2016
201180034147.7	China P.R.	Pending	METHOD, TERMINAL AND BASE STATION FOR TRIGGERING TERMINAL TO TRANSMIT SOUNDING REFERENCE SIGNAL	ATIS.3GPP.36.331V8210-2016
11780129.0	European Patent Convention	Pending	METHOD, TERMINAL AND BASE STATION FOR TRIGGERING TERMINAL TO TRANSMIT SOUNDING REFERENCE SIGNAL	ATIS.3GPP.36.331V8210-2016
ZL200810217789.0	China P.R.	Granted	Reserved resource release method, apparatus and base station device thereof	ATIS.3GPP.36.213V1240-2015
8,625,540	United States	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
022231	Armenia	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
EP2242305	Austria	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
2009212613	Australia	Granted	Mobile communication system, base station device, mobile station device, and mobile communication method	ATIS.3GPP.25.331V8250-2016
022231	Azerbaijan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
PI0908462-2	Brazil	Pending	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
022231	Belarus	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
8,989,153	United States	Granted	Mobile Communication System, Base Station Device, Mobile Station Device, and Mobile Communication Method	ATIS.3GPP.25.331V8250-2016
2713854	Canada	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
200980103317.5	China P.R.	Pending	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
EP2242305	Germany	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
EP2753115	Germany	Granted	Mobile communication system, base station device, mobile station device, and mobile communication method	ATIS.3GPP.25.331V8250-2016

022231	Eurasian Patent Convention	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
EP2242305	European Patent Convention	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
EP2753115	European Patent Convention	Granted	Mobile communication system, base station device, mobile station device, and mobile communication method	ATIS.3GPP.25.331V8250-2016
EP2242305	Spain	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
EP2242305	France	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
EP2242305	Great Britain	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
EP2753115	Great Britain	Granted	Mobile communication system, base station device, mobile station device, and mobile communication method	ATIS.3GPP.25.331V8250-2016
HK1147633	Hong Kong	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
EP2242305	Hungary	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
IDP0029981	Indonesia	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
4882/CHENP/2010	India	Pending	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
4646337	Japan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
022231	Kyrgyzstan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
10-1154780	Republic of Korea	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
022231	Kazakhstan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
EP2242305	Luxembourg	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
022231	Moldova	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
MX292520	Mexico	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
022231	Tajikistan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
022231	Turkmenistan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.331V8250-2016
8,625,540	United States	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010
022231	Armenia	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010

EP2242305	Austria	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010
2009212613	Australia	Granted	Mobile communication system, base station device, mobile station device, and mobile communication method	ATIS.3GPP.25.367V830-2010
022231	Azerbaijan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010
PI0908462-2	Brazil	Pending	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010
022231	Belarus	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010
8,989,153	United States	Granted	Mobile Communication System, Base Station Device, Mobile Station Device, and Mobile Communication Method	ATIS.3GPP.25.367V830-2010
2713854	Canada	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010
200980103317.5	China P.R.	Pending	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010
EP2242305	Germany	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010
EP2753115	Germany	Granted	Mobile communication system, base station device, mobile station device, and mobile communication method	ATIS.3GPP.25.367V830-2010
022231	Eurasian Patent Convention	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010
EP2242305	European Patent Convention	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010
EP2753115	European Patent Convention	Granted	Mobile communication system, base station device, mobile station device, and mobile communication method	ATIS.3GPP.25.367V830-2010
EP2242305	Spain	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010
EP2242305	France	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010
EP2242305	Great Britain	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010
EP2753115	Great Britain	Granted	Mobile communication system, base station device, mobile station device, and mobile communication method	ATIS.3GPP.25.367V830-2010
HK1147633	Hong Kong	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010
EP2242305	Hungary	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010
IDP0029981	Indonesia	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010
4882/CHENP/2010	India	Pending	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010
4646337	Japan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010

022231	Kyrgyzstan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010
10-1154780	Republic of Korea	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010
022231	Kazakhstan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010
EP2242305	Luxembourg	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010
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022231	Tajikistan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010
022231	Turkmenistan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.25.367V830-2010
8,625,540	United States	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
022231	Armenia	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
EP2242305	Austria	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
2009212613	Australia	Granted	Mobile communication system, base station device, mobile station device, and mobile communication method	ATIS.3GPP.36.211V1240-2015
022231	Azerbaijan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
PI0908462-2	Brazil	Pending	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
022231	Belarus	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
8,989,153	United States	Granted	Mobile Communication System, Base Station Device, Mobile Station Device, and Mobile Communication Method	ATIS.3GPP.36.211V1240-2015
2713854	Canada	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
200980103317.5	China P.R.	Pending	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
EP2242305	Germany	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
EP2753115	Germany	Granted	Mobile communication system, base station device, mobile station device, and mobile communication method	ATIS.3GPP.36.211V1240-2015
022231	Eurasian Patent Convention	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
EP2242305	European Patent Convention	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015

EP2753115	European Patent Convention	Granted	Mobile communication system, base station device, mobile station device, and mobile communication method	ATIS.3GPP.36.211V1240-2015
EP2242305	Spain	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
EP2242305	France	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
EP2242305	Great Britain	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
EP2753115	Great Britain	Granted	Mobile communication system, base station device, mobile station device, and mobile communication method	ATIS.3GPP.36.211V1240-2015
HK1147633	Hong Kong	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
EP2242305	Hungary	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
IDP0029981	Indonesia	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
4882/CHENP/2010	India	Pending	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
4646337	Japan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
022231	Kyrgyzstan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
10-1154780	Republic of Korea	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
022231	Kazakhstan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
EP2242305	Luxembourg	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
022231	Moldova	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
MX292520	Mexico	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
022231	Tajikistan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
022231	Turkmenistan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.211V1240-2015
8,625,540	United States	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
022231	Armenia	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
EP2242305	Austria	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
2009212613	Australia	Granted	Mobile communication system, base station device, mobile station device, and mobile communication method	ATIS.3GPP.36.213V1240-2015

022231	Azerbaijan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
PI0908462-2	Brazil	Pending	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
022231	Belarus	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
8,989,153	United States	Granted	Mobile Communication System, Base Station Device, Mobile Station Device, and Mobile Communication Method	ATIS.3GPP.36.213V1240-2015
2713854	Canada	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
200980103317.5	China P.R.	Pending	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
EP2242305	Germany	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
EP2753115	Germany	Granted	Mobile communication system, base station device, mobile station device, and mobile communication method	ATIS.3GPP.36.213V1240-2015
022231	Eurasian Patent Convention	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
EP2242305	European Patent Convention	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
EP2753115	European Patent Convention	Granted	Mobile communication system, base station device, mobile station device, and mobile communication method	ATIS.3GPP.36.213V1240-2015
EP2242305	Spain	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
EP2242305	France	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
EP2242305	Great Britain	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
EP2753115	Great Britain	Granted	Mobile communication system, base station device, mobile station device, and mobile communication method	ATIS.3GPP.36.213V1240-2015
HK1147633	Hong Kong	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
EP2242305	Hungary	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
IDP0029981	Indonesia	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
4882/CHENP/2010	India	Pending	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
4646337	Japan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
022231	Kyrgyzstan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
10-1154780	Republic of Korea	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015

022231	Kazakhstan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
EP2242305	Luxembourg	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
022231	Moldova	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
MX292520	Mexico	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
022231	Tajikistan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
022231	Turkmenistan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.213V1240-2015
8,625,540	United States	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
022231	Armenia	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
EP2242305	Austria	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
2009212613	Australia	Granted	Mobile communication system, base station device, mobile station device, and mobile communication method	ATIS.3GPP.36.300V8120-2010
022231	Azerbaijan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
PI0908462-2	Brazil	Pending	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
022231	Belarus	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
8,989,153	United States	Granted	Mobile Communication System, Base Station Device, Mobile Station Device, and Mobile Communication Method	ATIS.3GPP.36.300V8120-2010
2713854	Canada	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
200980103317.5	China P.R.	Pending	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
EP2242305	Germany	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
EP2753115	Germany	Granted	Mobile communication system, base station device, mobile station device, and mobile communication method	ATIS.3GPP.36.300V8120-2010
022231	Eurasian Patent Convention	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
EP2242305	European Patent Convention	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
EP2753115	European Patent Convention	Granted	Mobile communication system, base station device, mobile station device, and mobile communication method	ATIS.3GPP.36.300V8120-2010
EP2242305	Spain	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010

EP2242305	France	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
EP2242305	Great Britain	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
EP2753115	Great Britain	Granted	Mobile communication system, base station device, mobile station device, and mobile communication method	ATIS.3GPP.36.300V8120-2010
HK1147633	Hong Kong	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
EP2242305	Hungary	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
IDP0029981	Indonesia	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
4882/CHENP/2010	India	Pending	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
4646337	Japan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
022231	Kyrgyzstan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
10-1154780	Republic of Korea	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
022231	Kazakhstan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
EP2242305	Luxembourg	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
022231	Moldova	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
MX292520	Mexico	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
022231	Tajikistan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
022231	Turkmenistan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.300V8120-2010
8,625,540	United States	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
022231	Armenia	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
EP2242305	Austria	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
2009212613	Australia	Granted	Mobile communication system, base station device, mobile station device, and mobile communication method	ATIS.3GPP.36.331V8210-2016
022231	Azerbaijan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
PI0908462-2	Brazil	Pending	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016

022231	Belarus	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
8,989,153	United States	Granted	Mobile Communication System, Base Station Device, Mobile Station Device, and Mobile Communication Method	ATIS.3GPP.36.331V8210-2016
2713854	Canada	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
200980103317.5	China P.R.	Pending	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
EP2242305	Germany	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
EP2753115	Germany	Granted	Mobile communication system, base station device, mobile station device, and mobile communication method	ATIS.3GPP.36.331V8210-2016
022231	Eurasian Patent Convention	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
EP2242305	European Patent Convention	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
EP2753115	European Patent Convention	Granted	Mobile communication system, base station device, mobile station device, and mobile communication method	ATIS.3GPP.36.331V8210-2016
EP2242305	Spain	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
EP2242305	France	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
EP2242305	Great Britain	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
EP2753115	Great Britain	Granted	Mobile communication system, base station device, mobile station device, and mobile communication method	ATIS.3GPP.36.331V8210-2016
HK1147633	Hong Kong	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
EP2242305	Hungary	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
IDP0029981	Indonesia	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
4882/CHENP/2010	India	Pending	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
4646337	Japan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
022231	Kyrgyzstan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
10-1154780	Republic of Korea	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
022231	Kazakhstan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
EP2242305	Luxembourg	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016

022231	Moldova	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
MX292520	Mexico	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
022231	Tajikistan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
022231	Turkmenistan	Granted	MOBILE COMMUNICATION SYSTEM, BASE STATION DEVICE, MOBILE STATION DEVICE, AND MOBILE COMMUNICATION METHOD	ATIS.3GPP.36.331V8210-2016
7,808,882	United States	Granted	METHOD AND SYSTEM FOR OPTIMIZED REFERENCE SIGNAL DOWNLINK TRANSMISSION IN A WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
8,411,556	United States	Granted	METHOD FOR OPTIMIZED REFERENCE SIGNAL DOWNLINK TRANSMISSION IN A WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
7,808,882	United States	Granted	METHOD AND SYSTEM FOR OPTIMIZED REFERENCE SIGNAL DOWNLINK TRANSMISSION IN A WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
8,411,556	United States	Granted	METHOD FOR OPTIMIZED REFERENCE SIGNAL DOWNLINK TRANSMISSION IN A WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
8,045,538	United States	Granted	WIRELESS COMMUNICATION METHOD, RECEIVING METHOD, AND WIRELESS COMMUNICATION DEVICE	ATIS.3GPP.36.211V1240-2015
07831558.7	European Patent Convention	Pending	WIRELESS COMMUNICATION METHOD, RECEIVING METHOD AND WIRELESS COMMUNICATION DEVICE	ATIS.3GPP.36.211V1240-2015
4968956	Japan	Granted	WIRELESS COMMUNICATION METHOD, RECEIVING METHOD AND WIRELESS COMMUNICATION DEVICE	ATIS.3GPP.36.211V1240-2015
10779	Vietnam	Granted	WIRELESS COMMUNICATION METHOD, RECEIVING METHOD AND WIRELESS COMMUNICATION DEVICE	ATIS.3GPP.36.211V1240-2015
8,098,763	United States	Granted	WIRELESS TRANSMISSION DEVICE AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.211V1240-2015
011429	Armenia	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.211V1240-2015
014591	Armenia	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014592	Armenia	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014593	Armenia	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014594	Armenia	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.211V1240-2015
EP2164187	Austria	Granted	Transmission control method	ATIS.3GPP.36.211V1240-2015
EP2280495	Austria	Granted	Wireless Transmitting Method	ATIS.3GPP.36.211V1240-2015
011429	Azerbaijan	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.211V1240-2015
014591	Azerbaijan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014592	Azerbaijan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014593	Azerbaijan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014594	Azerbaijan	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.211V1240-2015
011429	Belarus	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.211V1240-2015
014591	Belarus	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014592	Belarus	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014593	Belarus	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015

014594	Belarus	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.211V1240-2015
EP2164187	Switzerland	Granted	Transmission control method	ATIS.3GPP.36.211V1240-2015
EP2280495	Switzerland	Granted	Wireless Transmitting Method	ATIS.3GPP.36.211V1240-2015
ZL201110115661.5	China P.R.	Granted	Transmission control method and transmission control device	ATIS.3GPP.36.211V1240-2015
ZL200910266387.4	China P.R.	Granted	Wireless transmission device and wireless transmission method	ATIS.3GPP.36.211V1240-2015
8,116,403	United States	Granted	WIRELESS TRANSMISSION DEVICE AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.211V1240-2015
8,625,717	United States	Granted	WIRELESS TRANSMISSION DEVICE AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.211V1240-2015
8,170,133	United States	Granted	WIRELESS TRANSMISSION DEVICE AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.211V1240-2015
EP1921774	Germany	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING METHOD	ATIS.3GPP.36.211V1240-2015
EP2164187	Germany	Granted	Transmission control method	ATIS.3GPP.36.211V1240-2015
EP2280495	Germany	Granted	Wireless Transmitting Method	ATIS.3GPP.36.211V1240-2015
EP2285012	Germany	Granted	Transmission control method and apparatus using delays in multiple antenna systems	ATIS.3GPP.36.211V1240-2015
EP2164187	Denmark	Granted	Transmission control method	ATIS.3GPP.36.211V1240-2015
EP2280495	Denmark	Granted	Wireless Transmitting Method	ATIS.3GPP.36.211V1240-2015
011429	Eurasian Patent Convention	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.211V1240-2015
014591	Eurasian Patent Convention	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014592	Eurasian Patent Convention	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014593	Eurasian Patent Convention	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014594	Eurasian Patent Convention	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.211V1240-2015
EP1921774	European Patent Convention	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING METHOD	ATIS.3GPP.36.211V1240-2015
EP2164187	European Patent Convention	Granted	Transmission control method	ATIS.3GPP.36.211V1240-2015
HK1141153	Hong Kong	Granted	TRANSMISSION CONTROL METHOD	ATIS.3GPP.36.211V1240-2015
EP2280495	European Patent Convention	Granted	Wireless Transmitting Method	ATIS.3GPP.36.211V1240-2015
EP2285012	European Patent Convention	Granted	Transmission control method and apparatus using delays in multiple antenna systems	ATIS.3GPP.36.211V1240-2015
EP2164187	Spain	Granted	Transmission control method	ATIS.3GPP.36.211V1240-2015
EP2280495	Spain	Granted	Wireless Transmitting Method	ATIS.3GPP.36.211V1240-2015
EP2164187	Finland	Granted	Transmission control method	ATIS.3GPP.36.211V1240-2015
EP2280495	Finland	Granted	Wireless Transmitting Method	ATIS.3GPP.36.211V1240-2015
EP1921774	France	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING METHOD	ATIS.3GPP.36.211V1240-2015
EP2164187	France	Granted	Transmission control method	ATIS.3GPP.36.211V1240-2015
EP2280495	France	Granted	Wireless Transmitting Method	ATIS.3GPP.36.211V1240-2015
EP1921774	Great Britain	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING METHOD	ATIS.3GPP.36.211V1240-2015
EP2164187	Great Britain	Granted	Transmission control method	ATIS.3GPP.36.211V1240-2015
EP2280495	Great Britain	Granted	Wireless Transmitting Method	ATIS.3GPP.36.211V1240-2015
EP2164187	Hungary	Granted	Transmission control method	ATIS.3GPP.36.211V1240-2015
EP2280495	Hungary	Granted	Wireless Transmitting Method	ATIS.3GPP.36.211V1240-2015
ID0026713	Indonesia	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING METHOD	ATIS.3GPP.36.211V1240-2015

IDP000040041	Indonesia	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING METHOD	ATIS.3GPP.36.211V1240-2015
IDP0033578	Indonesia	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING METHOD	ATIS.3GPP.36.211V1240-2015
1067/CHENP/2008	India	Pending	WIRELESS TRANSMISSION DEVICE AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.211V1240-2015
274354	India	Granted	WIRELESS TRANSMISSION DEVICE AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.211V1240-2015
EP2164187	Italy	Granted	Transmission control method	ATIS.3GPP.36.211V1240-2015
EP2280495	Italy	Granted	Wireless Transmitting Method	ATIS.3GPP.36.211V1240-2015
4477067	Japan	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING METHOD	ATIS.3GPP.36.211V1240-2015
4402151	Japan	Granted	TRANSMISSION CONTROL METHOD	ATIS.3GPP.36.211V1240-2015
4477080	Japan	Granted	TRANSMISSION CONTROL METHOD	ATIS.3GPP.36.211V1240-2015
4842307	Japan	Granted	WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.211V1240-2015
5280169	Japan	Granted	RADIO TRANSMITTING DEVICE	ATIS.3GPP.36.211V1240-2015
4481353	Japan	Granted	TRANSMISSION CONTROL METHOD	ATIS.3GPP.36.211V1240-2015
5107397	Japan	Granted	TRANSMISSION CONTROL METHOD	ATIS.3GPP.36.211V1240-2015
011429	Kyrgyzstan	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.211V1240-2015
014591	Kyrgyzstan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014592	Kyrgyzstan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014593	Kyrgyzstan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014594	Kyrgyzstan	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.211V1240-2015
011429	Kazakhstan	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.211V1240-2015
014591	Kazakhstan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014592	Kazakhstan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014593	Kazakhstan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014594	Kazakhstan	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.211V1240-2015
EP2164187	Liechtenstein	Granted	Transmission control method	ATIS.3GPP.36.211V1240-2015
EP2280495	Liechtenstein	Granted	Wireless Transmitting Method	ATIS.3GPP.36.211V1240-2015
011429	Moldova	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.211V1240-2015
014591	Moldova	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014592	Moldova	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014593	Moldova	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014594	Moldova	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.211V1240-2015
EP2164187	Netherlands	Granted	Transmission control method	ATIS.3GPP.36.211V1240-2015
EP2280495	Netherlands	Granted	Wireless Transmitting Method	ATIS.3GPP.36.211V1240-2015
EP2285012	Netherlands	Granted	Transmission control method and apparatus using delays in multiple antenna systems	ATIS.3GPP.36.211V1240-2015
EP2164187	Poland	Granted	Transmission control method	ATIS.3GPP.36.211V1240-2015
EP2280495	Poland	Granted	Wireless Transmitting Method	ATIS.3GPP.36.211V1240-2015
EP2164187	Portugal	Granted	Transmission control method	ATIS.3GPP.36.211V1240-2015
EP2280495	Portugal	Granted	Wireless Transmitting Method	ATIS.3GPP.36.211V1240-2015

EP2164187	Romania	Granted	Transmission control method	ATIS.3GPP.36.211V1240-2015
EP2280495	Romania	Granted	Wireless Transmitting Method	ATIS.3GPP.36.211V1240-2015
011429	Russian Federation	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.211V1240-2015
014591	Russian Federation	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014592	Russian Federation	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014593	Russian Federation	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014594	Russian Federation	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.211V1240-2015
EP2164187	Sweden	Granted	Transmission control method	ATIS.3GPP.36.211V1240-2015
EP2280495	Sweden	Granted	Wireless Transmitting Method	ATIS.3GPP.36.211V1240-2015
011429	Tajikistan	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.211V1240-2015
014591	Tajikistan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014592	Tajikistan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014593	Tajikistan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014594	Tajikistan	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.211V1240-2015
011429	Turkmenistan	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.211V1240-2015
014591	Turkmenistan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014592	Turkmenistan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014593	Turkmenistan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
014594	Turkmenistan	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.211V1240-2015
8,098,763	United States	Granted	WIRELESS TRANSMISSION DEVICE AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.213V1240-2015
011429	Armenia	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.213V1240-2015
014591	Armenia	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014592	Armenia	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014593	Armenia	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014594	Armenia	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.213V1240-2015
EP2164187	Austria	Granted	Transmission control method	ATIS.3GPP.36.213V1240-2015
EP2280495	Austria	Granted	Wireless Transmitting Method	ATIS.3GPP.36.213V1240-2015
011429	Azerbaijan	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.213V1240-2015
014591	Azerbaijan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014592	Azerbaijan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014593	Azerbaijan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014594	Azerbaijan	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.213V1240-2015
011429	Belarus	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.213V1240-2015
014591	Belarus	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014592	Belarus	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014593	Belarus	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015

014594	Belarus	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.213V1240-2015
EP2164187	Switzerland	Granted	Transmission control method	ATIS.3GPP.36.213V1240-2015
EP2280495	Switzerland	Granted	Wireless Transmitting Method	ATIS.3GPP.36.213V1240-2015
ZL201110115661.5	China P.R.	Granted	Transmission control method and transmission control device	ATIS.3GPP.36.213V1240-2015
ZL200910266387.4	China P.R.	Granted	Wireless transmission device and wireless transmission method	ATIS.3GPP.36.213V1240-2015
8,116,403	United States	Granted	WIRELESS TRANSMISSION DEVICE AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.213V1240-2015
8,625,717	United States	Granted	WIRELESS TRANSMISSION DEVICE AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.213V1240-2015
8,170,133	United States	Granted	WIRELESS TRANSMISSION DEVICE AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.213V1240-2015
EP1921774	Germany	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING METHOD	ATIS.3GPP.36.213V1240-2015
EP2164187	Germany	Granted	Transmission control method	ATIS.3GPP.36.213V1240-2015
EP2280495	Germany	Granted	Wireless Transmitting Method	ATIS.3GPP.36.213V1240-2015
EP2285012	Germany	Granted	Transmission control method and apparatus using delays in multiple antenna systems	ATIS.3GPP.36.213V1240-2015
EP2164187	Denmark	Granted	Transmission control method	ATIS.3GPP.36.213V1240-2015
EP2280495	Denmark	Granted	Wireless Transmitting Method	ATIS.3GPP.36.213V1240-2015
011429	Eurasian Patent Convention	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.213V1240-2015
014591	Eurasian Patent Convention	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014592	Eurasian Patent Convention	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014593	Eurasian Patent Convention	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014594	Eurasian Patent Convention	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.213V1240-2015
EP1921774	European Patent Convention	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING METHOD	ATIS.3GPP.36.213V1240-2015
EP2164187	European Patent Convention	Granted	Transmission control method	ATIS.3GPP.36.213V1240-2015
HK1141153	Hong Kong	Granted	TRANSMISSION CONTROL METHOD	ATIS.3GPP.36.213V1240-2015
EP2280495	European Patent Convention	Granted	Wireless Transmitting Method	ATIS.3GPP.36.213V1240-2015
EP2285012	European Patent Convention	Granted	Transmission control method and apparatus using delays in multiple antenna systems	ATIS.3GPP.36.213V1240-2015
EP2164187	Spain	Granted	Transmission control method	ATIS.3GPP.36.213V1240-2015
EP2280495	Spain	Granted	Wireless Transmitting Method	ATIS.3GPP.36.213V1240-2015
EP2164187	Finland	Granted	Transmission control method	ATIS.3GPP.36.213V1240-2015
EP2280495	Finland	Granted	Wireless Transmitting Method	ATIS.3GPP.36.213V1240-2015
EP1921774	France	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING METHOD	ATIS.3GPP.36.213V1240-2015
EP2164187	France	Granted	Transmission control method	ATIS.3GPP.36.213V1240-2015
EP2280495	France	Granted	Wireless Transmitting Method	ATIS.3GPP.36.213V1240-2015
EP1921774	Great Britain	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING METHOD	ATIS.3GPP.36.213V1240-2015
EP2164187	Great Britain	Granted	Transmission control method	ATIS.3GPP.36.213V1240-2015
EP2280495	Great Britain	Granted	Wireless Transmitting Method	ATIS.3GPP.36.213V1240-2015
EP2164187	Hungary	Granted	Transmission control method	ATIS.3GPP.36.213V1240-2015
EP2280495	Hungary	Granted	Wireless Transmitting Method	ATIS.3GPP.36.213V1240-2015
ID0026713	Indonesia	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING METHOD	ATIS.3GPP.36.213V1240-2015

IDP000040041	Indonesia	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING METHOD	ATIS.3GPP.36.213V1240-2015
IDP0033578	Indonesia	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING METHOD	ATIS.3GPP.36.213V1240-2015
1067/CHENP/2008	India	Pending	WIRELESS TRANSMISSION DEVICE AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.213V1240-2015
274354	India	Granted	WIRELESS TRANSMISSION DEVICE AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.213V1240-2015
EP2164187	Italy	Granted	Transmission control method	ATIS.3GPP.36.213V1240-2015
EP2280495	Italy	Granted	Wireless Transmitting Method	ATIS.3GPP.36.213V1240-2015
4477067	Japan	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING METHOD	ATIS.3GPP.36.213V1240-2015
4402151	Japan	Granted	TRANSMISSION CONTROL METHOD	ATIS.3GPP.36.213V1240-2015
4477080	Japan	Granted	TRANSMISSION CONTROL METHOD	ATIS.3GPP.36.213V1240-2015
4842307	Japan	Granted	WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.213V1240-2015
5280169	Japan	Granted	RADIO TRANSMITTING DEVICE	ATIS.3GPP.36.213V1240-2015
4481353	Japan	Granted	TRANSMISSION CONTROL METHOD	ATIS.3GPP.36.213V1240-2015
5107397	Japan	Granted	TRANSMISSION CONTROL METHOD	ATIS.3GPP.36.213V1240-2015
011429	Kyrgyzstan	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.213V1240-2015
014591	Kyrgyzstan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014592	Kyrgyzstan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014593	Kyrgyzstan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014594	Kyrgyzstan	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.213V1240-2015
011429	Kazakhstan	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.213V1240-2015
014591	Kazakhstan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014592	Kazakhstan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014593	Kazakhstan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014594	Kazakhstan	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.213V1240-2015
EP2164187	Liechtenstein	Granted	Transmission control method	ATIS.3GPP.36.213V1240-2015
EP2280495	Liechtenstein	Granted	Wireless Transmitting Method	ATIS.3GPP.36.213V1240-2015
011429	Moldova	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.213V1240-2015
014591	Moldova	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014592	Moldova	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014593	Moldova	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014594	Moldova	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.213V1240-2015
EP2164187	Netherlands	Granted	Transmission control method	ATIS.3GPP.36.213V1240-2015
EP2280495	Netherlands	Granted	Wireless Transmitting Method	ATIS.3GPP.36.213V1240-2015
EP2285012	Netherlands	Granted	Transmission control method and apparatus using delays in multiple antenna systems	ATIS.3GPP.36.213V1240-2015
EP2164187	Poland	Granted	Transmission control method	ATIS.3GPP.36.213V1240-2015
EP2280495	Poland	Granted	Wireless Transmitting Method	ATIS.3GPP.36.213V1240-2015
EP2164187	Portugal	Granted	Transmission control method	ATIS.3GPP.36.213V1240-2015
EP2280495	Portugal	Granted	Wireless Transmitting Method	ATIS.3GPP.36.213V1240-2015

EP2164187	Romania	Granted	Transmission control method	ATIS.3GPP.36.213V1240-2015
EP2280495	Romania	Granted	Wireless Transmitting Method	ATIS.3GPP.36.213V1240-2015
011429	Russian Federation	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.213V1240-2015
014591	Russian Federation	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014592	Russian Federation	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014593	Russian Federation	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014594	Russian Federation	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.213V1240-2015
EP2164187	Sweden	Granted	Transmission control method	ATIS.3GPP.36.213V1240-2015
EP2280495	Sweden	Granted	Wireless Transmitting Method	ATIS.3GPP.36.213V1240-2015
011429	Tajikistan	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.213V1240-2015
014591	Tajikistan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014592	Tajikistan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014593	Tajikistan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014594	Tajikistan	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.213V1240-2015
011429	Turkmenistan	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.213V1240-2015
014591	Turkmenistan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014592	Turkmenistan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014593	Turkmenistan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
014594	Turkmenistan	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.213V1240-2015
8,098,763	United States	Granted	WIRELESS TRANSMISSION DEVICE AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.331V8210-2016
011429	Armenia	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.331V8210-2016
014591	Armenia	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014592	Armenia	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014593	Armenia	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014594	Armenia	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.331V8210-2016
EP2164187	Austria	Granted	Transmission control method	ATIS.3GPP.36.331V8210-2016
EP2280495	Austria	Granted	Wireless Transmitting Method	ATIS.3GPP.36.331V8210-2016
011429	Azerbaijan	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.331V8210-2016
014591	Azerbaijan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014592	Azerbaijan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014593	Azerbaijan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014594	Azerbaijan	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.331V8210-2016
011429	Belarus	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.331V8210-2016
014591	Belarus	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014592	Belarus	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014593	Belarus	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016

014594	Belarus	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.331V8210-2016
EP2164187	Switzerland	Granted	Transmission control method	ATIS.3GPP.36.331V8210-2016
EP2280495	Switzerland	Granted	Wireless Transmitting Method	ATIS.3GPP.36.331V8210-2016
ZL201110115661.5	China P.R.	Granted	Transmission control method and transmission control device	ATIS.3GPP.36.331V8210-2016
ZL200910266387.4	China P.R.	Granted	Wireless transmission device and wireless transmission method	ATIS.3GPP.36.331V8210-2016
8,116,403	United States	Granted	WIRELESS TRANSMISSION DEVICE AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.331V8210-2016
8,625,717	United States	Granted	WIRELESS TRANSMISSION DEVICE AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.331V8210-2016
8,170,133	United States	Granted	WIRELESS TRANSMISSION DEVICE AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.331V8210-2016
EP1921774	Germany	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING METHOD	ATIS.3GPP.36.331V8210-2016
EP2164187	Germany	Granted	Transmission control method	ATIS.3GPP.36.331V8210-2016
EP2280495	Germany	Granted	Wireless Transmitting Method	ATIS.3GPP.36.331V8210-2016
EP2285012	Germany	Granted	Transmission control method and apparatus using delays in multiple antenna systems	ATIS.3GPP.36.331V8210-2016
EP2164187	Denmark	Granted	Transmission control method	ATIS.3GPP.36.331V8210-2016
EP2280495	Denmark	Granted	Wireless Transmitting Method	ATIS.3GPP.36.331V8210-2016
011429	Eurasian Patent Convention	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.331V8210-2016
014591	Eurasian Patent Convention	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014592	Eurasian Patent Convention	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014593	Eurasian Patent Convention	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014594	Eurasian Patent Convention	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.331V8210-2016
EP1921774	European Patent Convention	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING METHOD	ATIS.3GPP.36.331V8210-2016
EP2164187	European Patent Convention	Granted	Transmission control method	ATIS.3GPP.36.331V8210-2016
HK1141153	Hong Kong	Granted	TRANSMISSION CONTROL METHOD	ATIS.3GPP.36.331V8210-2016
EP2280495	European Patent Convention	Granted	Wireless Transmitting Method	ATIS.3GPP.36.331V8210-2016
EP2285012	European Patent Convention	Granted	Transmission control method and apparatus using delays in multiple antenna systems	ATIS.3GPP.36.331V8210-2016
EP2164187	Spain	Granted	Transmission control method	ATIS.3GPP.36.331V8210-2016
EP2280495	Spain	Granted	Wireless Transmitting Method	ATIS.3GPP.36.331V8210-2016
EP2164187	Finland	Granted	Transmission control method	ATIS.3GPP.36.331V8210-2016
EP2280495	Finland	Granted	Wireless Transmitting Method	ATIS.3GPP.36.331V8210-2016
EP1921774	France	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING METHOD	ATIS.3GPP.36.331V8210-2016
EP2164187	France	Granted	Transmission control method	ATIS.3GPP.36.331V8210-2016
EP2280495	France	Granted	Wireless Transmitting Method	ATIS.3GPP.36.331V8210-2016
EP1921774	Great Britain	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING METHOD	ATIS.3GPP.36.331V8210-2016
EP2164187	Great Britain	Granted	Transmission control method	ATIS.3GPP.36.331V8210-2016
EP2280495	Great Britain	Granted	Wireless Transmitting Method	ATIS.3GPP.36.331V8210-2016
EP2164187	Hungary	Granted	Transmission control method	ATIS.3GPP.36.331V8210-2016
EP2280495	Hungary	Granted	Wireless Transmitting Method	ATIS.3GPP.36.331V8210-2016
ID0026713	Indonesia	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING METHOD	ATIS.3GPP.36.331V8210-2016

IDP000040041	Indonesia	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING METHOD	ATIS.3GPP.36.331V8210-2016
IDP0033578	Indonesia	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING METHOD	ATIS.3GPP.36.331V8210-2016
1067/CHENP/2008	India	Pending	WIRELESS TRANSMISSION DEVICE AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.331V8210-2016
274354	India	Granted	WIRELESS TRANSMISSION DEVICE AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.331V8210-2016
EP2164187	Italy	Granted	Transmission control method	ATIS.3GPP.36.331V8210-2016
EP2280495	Italy	Granted	Wireless Transmitting Method	ATIS.3GPP.36.331V8210-2016
4477067	Japan	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING METHOD	ATIS.3GPP.36.331V8210-2016
4402151	Japan	Granted	TRANSMISSION CONTROL METHOD	ATIS.3GPP.36.331V8210-2016
4477080	Japan	Granted	TRANSMISSION CONTROL METHOD	ATIS.3GPP.36.331V8210-2016
4842307	Japan	Granted	WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.331V8210-2016
5280169	Japan	Granted	RADIO TRANSMITTING DEVICE	ATIS.3GPP.36.331V8210-2016
4481353	Japan	Granted	TRANSMISSION CONTROL METHOD	ATIS.3GPP.36.331V8210-2016
5107397	Japan	Granted	TRANSMISSION CONTROL METHOD	ATIS.3GPP.36.331V8210-2016
011429	Kyrgyzstan	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.331V8210-2016
014591	Kyrgyzstan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014592	Kyrgyzstan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014593	Kyrgyzstan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014594	Kyrgyzstan	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.331V8210-2016
011429	Kazakhstan	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.331V8210-2016
014591	Kazakhstan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014592	Kazakhstan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014593	Kazakhstan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014594	Kazakhstan	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.331V8210-2016
EP2164187	Liechtenstein	Granted	Transmission control method	ATIS.3GPP.36.331V8210-2016
EP2280495	Liechtenstein	Granted	Wireless Transmitting Method	ATIS.3GPP.36.331V8210-2016
011429	Moldova	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.331V8210-2016
014591	Moldova	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014592	Moldova	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014593	Moldova	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014594	Moldova	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.331V8210-2016
EP2164187	Netherlands	Granted	Transmission control method	ATIS.3GPP.36.331V8210-2016
EP2280495	Netherlands	Granted	Wireless Transmitting Method	ATIS.3GPP.36.331V8210-2016
EP2285012	Netherlands	Granted	Transmission control method and apparatus using delays in multiple antenna systems	ATIS.3GPP.36.331V8210-2016
EP2164187	Poland	Granted	Transmission control method	ATIS.3GPP.36.331V8210-2016
EP2280495	Poland	Granted	Wireless Transmitting Method	ATIS.3GPP.36.331V8210-2016
EP2164187	Portugal	Granted	Transmission control method	ATIS.3GPP.36.331V8210-2016
EP2280495	Portugal	Granted	Wireless Transmitting Method	ATIS.3GPP.36.331V8210-2016

EP2164187	Romania	Granted	Transmission control method	ATIS.3GPP.36.331V8210-2016
EP2280495	Romania	Granted	Wireless Transmitting Method	ATIS.3GPP.36.331V8210-2016
011429	Russian Federation	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.331V8210-2016
014591	Russian Federation	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014592	Russian Federation	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014593	Russian Federation	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014594	Russian Federation	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.331V8210-2016
EP2164187	Sweden	Granted	Transmission control method	ATIS.3GPP.36.331V8210-2016
EP2280495	Sweden	Granted	Wireless Transmitting Method	ATIS.3GPP.36.331V8210-2016
011429	Tajikistan	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.331V8210-2016
014591	Tajikistan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014592	Tajikistan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014593	Tajikistan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014594	Tajikistan	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.331V8210-2016
011429	Turkmenistan	Granted	WIRELESS TRANSMITTING DEVICE AND WIRELESS TRANSMITTING DEVICE	ATIS.3GPP.36.331V8210-2016
014591	Turkmenistan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014592	Turkmenistan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014593	Turkmenistan	Granted	TRANSMISSION CONTROL METHOD IN WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.331V8210-2016
014594	Turkmenistan	Granted	WIRELESS TRANSMITTING DEVICE WITH MODULATION FUNCTION AND TIME-AND-FREQUENCY SIGNAL CONVERSION	ATIS.3GPP.36.331V8210-2016
8,165,537	United States	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.211V1240-2015
EP1971042	Belgium	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.211V1240-2015
EP1971042	Switzerland	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.211V1240-2015
ZL200680049043.2	China P.R.	Granted	Wireless transmitter and wireless transmission method	ATIS.3GPP.36.211V1240-2015
EP1971042	Germany	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.211V1240-2015
EP1971042	European Patent Convention	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.211V1240-2015
EP1971042	France	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.211V1240-2015
EP1971042	Great Britain	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.211V1240-2015
4658146	Japan	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.211V1240-2015
EP1971042	Liechtenstein	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.211V1240-2015
EP1971042	Luxembourg	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.211V1240-2015
8,165,537	United States	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.212V1230-2015
EP1971042	Belgium	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.212V1230-2015
EP1971042	Switzerland	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.212V1230-2015
ZL200680049043.2	China P.R.	Granted	Wireless transmitter and wireless transmission method	ATIS.3GPP.36.212V1230-2015
EP1971042	Germany	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.212V1230-2015
EP1971042	European Patent Convention	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.212V1230-2015
EP1971042	France	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.212V1230-2015
EP1971042	Great Britain	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.212V1230-2015

4658146	Japan	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.212V1230-2015
EP1971042	Liechtenstein	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.212V1230-2015
EP1971042	Luxembourg	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.212V1230-2015
8,165,537	United States	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.213V1240-2015
EP1971042	Belgium	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.213V1240-2015
EP1971042	Switzerland	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.213V1240-2015
ZL200680049043.2	China P.R.	Granted	Wireless transmitter and wireless transmission method	ATIS.3GPP.36.213V1240-2015
EP1971042	Germany	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.213V1240-2015
EP1971042	European Patent Convention	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.213V1240-2015
EP1971042	France	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.213V1240-2015
EP1971042	Great Britain	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.213V1240-2015
4658146	Japan	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.213V1240-2015
EP1971042	Liechtenstein	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.213V1240-2015
EP1971042	Luxembourg	Granted	WIRELESS TRANSMITTER AND WIRELESS TRANSMISSION METHOD	ATIS.3GPP.36.213V1240-2015
3070/CHENP/2011	India	Pending	METHOD, APPARATUS AND SYSTEM FOR MULTI-ANTENNA TRANSMISSION	ATIS.3GPP.36.211V1240-2015
10-1274186	Republic of Korea	Granted	METHOD, APPARATUS AND SYSTEM FOR MULTI-ANTENNA TRANSMISSION	ATIS.3GPP.36.211V1240-2015
2485685	Russian Federation	Granted	METHOD, APPARATUS AND SYSTEM FOR MULTI-ANTENNA TRANSMISSION	ATIS.3GPP.36.211V1240-2015
8,676,186	United States	Granted	Cell load balancing method, cell load measuring method, and devices thereof	ATIS.3GPP.36.300V8120-2010
8,958,812	United States	Granted	CELL LOAD BALANCING METHOD AND DEVICES THEREOF	ATIS.3GPP.36.300V8120-2010
ZL200810161540.2	China P.R.	Granted	Cell load equalization method	ATIS.3GPP.36.300V8120-2010
ZL201310127758.7	China P.R.	Granted	Base station	ATIS.3GPP.36.300V8120-2010
09817234.9	European Patent Convention	Pending	CELL LOAD BALANCING METHOD, CELL LOAD MEASURING METHOD AND DEVICES THEREOF	ATIS.3GPP.36.300V8120-2010
8,676,186	United States	Granted	Cell load balancing method, cell load measuring method, and devices thereof	ATIS.3GPP.36.423V890-2010
8,958,812	United States	Granted	CELL LOAD BALANCING METHOD AND DEVICES THEREOF	ATIS.3GPP.36.423V890-2010
ZL200810161540.2	China P.R.	Granted	Cell load equalization method	ATIS.3GPP.36.423V890-2010
ZL201310127758.7	China P.R.	Granted	Base station	ATIS.3GPP.36.423V890-2010
09817234.9	European Patent Convention	Pending	CELL LOAD BALANCING METHOD, CELL LOAD MEASURING METHOD AND DEVICES THEREOF	ATIS.3GPP.36.423V890-2010
7,941,121	United States	Granted	METHOD FOR VERIFYING THE VALIDITY OF A USER	ATIS.3GPP.33.220V890-2014
2545229	Canada	Granted	METHOD FOR VERIFYING THE VALIDITY OF A USER	ATIS.3GPP.33.220V890-2014
ZL200310113230.0	China P.R.	Granted	Method for authenticating users	ATIS.3GPP.33.220V890-2014
04789868.9	European Patent Convention	Pending	A METHOD FOR VERIFYING THE SUBSCRIBER'S VALIDITY	ATIS.3GPP.33.220V890-2014
7,764,647	United States	Granted	Communications system, and base station and terminals used therein	ATIS.3GPP.36.211V1240-2015
06842895.2	European Patent Convention	Pending	COMMUNICATION SYSTEM AND BASE STATION AND STATIONS USED THEREIN	ATIS.3GPP.36.211V1240-2015
4870093	Japan	Granted	COMMUNICATION SYSTEM AND BASE STATION AND STATIONS USED THEREIN	ATIS.3GPP.36.211V1240-2015
7,764,647	United States	Granted	Communications system, and base station and terminals used therein	ATIS.3GPP.36.213V1240-2015
06842895.2	European Patent Convention	Pending	COMMUNICATION SYSTEM AND BASE STATION AND STATIONS USED THEREIN	ATIS.3GPP.36.213V1240-2015
4870093	Japan	Granted	COMMUNICATION SYSTEM AND BASE STATION AND STATIONS USED THEREIN	ATIS.3GPP.36.213V1240-2015
7,764,647	United States	Granted	Communications system, and base station and terminals used therein	ATIS.3GPP.36.331V8210-2016
06842895.2	European Patent Convention	Pending	COMMUNICATION SYSTEM AND BASE STATION AND STATIONS USED THEREIN	ATIS.3GPP.36.331V8210-2016

4870093	Japan	Granted	COMMUNICATION SYSTEM AND BASE STATION AND STATIONS USED THEREIN	ATIS.3GPP.36.331V8210-2016
012497	Armenia	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
016627	Armenia	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
016947	Armenia	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.211V1240-2015
018436	Armenia	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
012497	Azerbaijan	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
016627	Azerbaijan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
016947	Azerbaijan	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.211V1240-2015
018436	Azerbaijan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
EP2034625	Belgium	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
012497	Belarus	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
016627	Belarus	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
016947	Belarus	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.211V1240-2015
018436	Belarus	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
EP2034625	Switzerland	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
ZL200680038892.8	China P.R.	Granted	Terminal apparatus, base station apparatus and communication system	ATIS.3GPP.36.211V1240-2015
ZL200810184724.0	China P.R.	Granted	Wireless transmitter	ATIS.3GPP.36.211V1240-2015
HK1130128	Hong Kong	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
ZL200810184723.6	China P.R.	Granted	Terminal apparatus, base station apparatus and communication system	ATIS.3GPP.36.211V1240-2015
HK1130126	Hong Kong	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
ZL200810184725.5	China P.R.	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS, AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
HK1130127	Hong Kong	Granted	WIRELESS RECEIVER	ATIS.3GPP.36.211V1240-2015
8,111,743	United States	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
8,107,897	United States	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
8,121,184	United States	Granted	WIRELESS RECEIVER	ATIS.3GPP.36.211V1240-2015
8,121,559	United States	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
8,116,708	United States	Granted	WIRELESS RECEIVER	ATIS.3GPP.36.211V1240-2015
8,170,512	United States	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
EP1944882	Germany	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
EP2034625	Germany	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
EP2037592	Germany	Granted	Wireless receiver	ATIS.3GPP.36.211V1240-2015
EP2034624	Germany	Granted	Wireless transmitter	ATIS.3GPP.36.211V1240-2015
012497	Eurasian Patent Convention	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015

016627	Eurasian Patent Convention	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
016947	Eurasian Patent Convention	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.211V1240-2015
018436	Eurasian Patent Convention	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
EP1944882	European Patent Convention	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
EP2034625	European Patent Convention	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
EP2037592	European Patent Convention	Granted	Wireless receiver	ATIS.3GPP.36.211V1240-2015
EP2034624	European Patent Convention	Granted	Wireless transmitter	ATIS.3GPP.36.211V1240-2015
EP1944882	Spain	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
EP2037592	Spain	Granted	Wireless receiver	ATIS.3GPP.36.211V1240-2015
EP2034624	Spain	Granted	Wireless transmitter	ATIS.3GPP.36.211V1240-2015
EP1944882	Finland	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
EP2034624	Finland	Granted	Wireless transmitter	ATIS.3GPP.36.211V1240-2015
EP1944882	France	Granted	TERMINAL, STATION DE BASE ET SYSTEME DE COMMUNICATION	ATIS.3GPP.36.211V1240-2015
EP2034625	France	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
EP2037592	France	Granted	Wireless receiver	ATIS.3GPP.36.211V1240-2015
EP2034624	France	Granted	Wireless transmitter	ATIS.3GPP.36.211V1240-2015
EP1944882	Great Britain	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
EP2034625	Great Britain	Granted	Wireless transmitter	ATIS.3GPP.36.211V1240-2015
EP2037592	Great Britain	Granted	Wireless receiver	ATIS.3GPP.36.211V1240-2015
EP2034624	Great Britain	Granted	Wireless transmitter	ATIS.3GPP.36.211V1240-2015
EP1944882	Hungary	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
EP2034625	Hungary	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
EP2034624	Hungary	Granted	Wireless transmitter	ATIS.3GPP.36.211V1240-2015
IDP0027399	Indonesia	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
IDP0032073	Indonesia	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
IDP0027311	Indonesia	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
IDP0027400	Indonesia	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
EP2034625	Ireland	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
1943/CHENP/2008	India	Pending	TERMINAL APPARATUS, BASE STATION APPARATUS, AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015

267742	India	Granted	WIRELESS RECEIVER	ATIS.3GPP.36.211V1240-2015
274129	India	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
268063	India	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
EP1944882	Italy	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
EP2037592	Italy	Granted	Wireless receiver	ATIS.3GPP.36.211V1240-2015
EP2034624	Italy	Granted	Wireless transmitter	ATIS.3GPP.36.211V1240-2015
4503650	Japan	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
4405573	Japan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
4405574	Japan	Granted	WIRELESS RECEIVER	ATIS.3GPP.36.211V1240-2015
5101641	Japan	Granted	RADIO RECEIVER	ATIS.3GPP.36.211V1240-2015
012497	Kyrgyzstan	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
016627	Kyrgyzstan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
016947	Kyrgyzstan	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.211V1240-2015
018436	Kyrgyzstan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
012497	Kazakhstan	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
016627	Kazakhstan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
016947	Kazakhstan	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.211V1240-2015
018436	Kazakhstan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
EP2034625	Luxembourg	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
EP2034625	Monaco	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
012497	Moldova	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
016627	Moldova	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
016947	Moldova	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.211V1240-2015
018436	Moldova	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
EP1944882	Poland	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
EP2037592	Poland	Granted	Wireless receiver	ATIS.3GPP.36.211V1240-2015
EP2034624	Poland	Granted	Wireless transmitter	ATIS.3GPP.36.211V1240-2015
EP2034625	Portugal	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
EP1944882	Romania	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
EP2034624	Romania	Granted	Wireless transmitter	ATIS.3GPP.36.211V1240-2015
012497	Russian Federation	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015

016627	Russian Federation	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
016947	Russian Federation	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.211V1240-2015
018436	Russian Federation	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
012497	Tajikistan	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
016627	Tajikistan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
016947	Tajikistan	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.211V1240-2015
018436	Tajikistan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
012497	Turkmenistan	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.211V1240-2015
016627	Turkmenistan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
016947	Turkmenistan	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.211V1240-2015
018436	Turkmenistan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.211V1240-2015
012497	Armenia	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
016627	Armenia	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
016947	Armenia	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.212V1230-2015
018436	Armenia	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
012497	Azerbaijan	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
016627	Azerbaijan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
016947	Azerbaijan	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.212V1230-2015
018436	Azerbaijan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
EP2034625	Belgium	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
012497	Belarus	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
016627	Belarus	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
016947	Belarus	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.212V1230-2015
018436	Belarus	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
EP2034625	Switzerland	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
ZL200680038892.8	China P.R.	Granted	Terminal apparatus, base station apparatus and communication system	ATIS.3GPP.36.212V1230-2015
ZL200810184724.0	China P.R.	Granted	Wireless transmitter	ATIS.3GPP.36.212V1230-2015
HK1130128	Hong Kong	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
ZL200810184723.6	China P.R.	Granted	Terminal apparatus, base station apparatus and communication system	ATIS.3GPP.36.212V1230-2015
HK1130126	Hong Kong	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
ZL200810184725.5	China P.R.	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS, AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
HK1130127	Hong Kong	Granted	WIRELESS RECEIVER	ATIS.3GPP.36.212V1230-2015
8,111,743	United States	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
8,107,897	United States	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015

8,121,184	United States	Granted	WIRELESS RECEIVER	ATIS.3GPP.36.212V1230-2015
8,121,559	United States	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
8,116,708	United States	Granted	WIRELESS RECEIVER	ATIS.3GPP.36.212V1230-2015
8,170,512	United States	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
EP1944882	Germany	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
EP2034625	Germany	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
EP2037592	Germany	Granted	Wireless receiver	ATIS.3GPP.36.212V1230-2015
EP2034624	Germany	Granted	Wireless transmitter	ATIS.3GPP.36.212V1230-2015
012497	Eurasian Patent Convention	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
016627	Eurasian Patent Convention	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
016947	Eurasian Patent Convention	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.212V1230-2015
018436	Eurasian Patent Convention	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
EP1944882	European Patent Convention	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
EP2034625	European Patent Convention	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
EP2037592	European Patent Convention	Granted	Wireless receiver	ATIS.3GPP.36.212V1230-2015
EP2034624	European Patent Convention	Granted	Wireless transmitter	ATIS.3GPP.36.212V1230-2015
EP1944882	Spain	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
EP2037592	Spain	Granted	Wireless receiver	ATIS.3GPP.36.212V1230-2015
EP2034624	Spain	Granted	Wireless transmitter	ATIS.3GPP.36.212V1230-2015
EP1944882	Finland	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
EP2034624	Finland	Granted	Wireless transmitter	ATIS.3GPP.36.212V1230-2015
EP1944882	France	Granted	TERMINAL, STATION DE BASE ET SYSTEME DE COMMUNICATION	ATIS.3GPP.36.212V1230-2015
EP2034625	France	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
EP2037592	France	Granted	Wireless receiver	ATIS.3GPP.36.212V1230-2015
EP2034624	France	Granted	Wireless transmitter	ATIS.3GPP.36.212V1230-2015
EP1944882	Great Britain	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
EP2034625	Great Britain	Granted	Wireless transmitter	ATIS.3GPP.36.212V1230-2015
EP2037592	Great Britain	Granted	Wireless receiver	ATIS.3GPP.36.212V1230-2015
EP2034624	Great Britain	Granted	Wireless transmitter	ATIS.3GPP.36.212V1230-2015
EP1944882	Hungary	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
EP2034625	Hungary	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015

EP2034624	Hungary	Granted	Wireless transmitter	ATIS.3GPP.36.212V1230-2015
IDP0027399	Indonesia	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
IDP0032073	Indonesia	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
IDP0027311	Indonesia	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
IDP0027400	Indonesia	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
EP2034625	Ireland	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
1943/CHENP/2008	India	Pending	TERMINAL APPARATUS, BASE STATION APPARATUS, AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
267742	India	Granted	WIRELESS RECEIVER	ATIS.3GPP.36.212V1230-2015
274129	India	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
268063	India	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
EP1944882	Italy	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
EP2037592	Italy	Granted	Wireless receiver	ATIS.3GPP.36.212V1230-2015
EP2034624	Italy	Granted	Wireless transmitter	ATIS.3GPP.36.212V1230-2015
4503650	Japan	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
4405573	Japan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
4405574	Japan	Granted	WIRELESS RECEIVER	ATIS.3GPP.36.212V1230-2015
5101641	Japan	Granted	RADIO RECEIVER	ATIS.3GPP.36.212V1230-2015
012497	Kyrgyzstan	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
016627	Kyrgyzstan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
016947	Kyrgyzstan	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.212V1230-2015
018436	Kyrgyzstan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
012497	Kazakhstan	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
016627	Kazakhstan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
016947	Kazakhstan	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.212V1230-2015
018436	Kazakhstan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
EP2034625	Luxembourg	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
EP2034625	Monaco	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
012497	Moldova	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
016627	Moldova	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
016947	Moldova	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.212V1230-2015

018436	Moldova	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
EP1944882	Poland	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
EP2037592	Poland	Granted	Wireless receiver	ATIS.3GPP.36.212V1230-2015
EP2034624	Poland	Granted	Wireless transmitter	ATIS.3GPP.36.212V1230-2015
EP2034625	Portugal	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
EP1944882	Romania	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
EP2034624	Romania	Granted	Wireless transmitter	ATIS.3GPP.36.212V1230-2015
012497	Russian Federation	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
016627	Russian Federation	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
016947	Russian Federation	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.212V1230-2015
018436	Russian Federation	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
012497	Tajikistan	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
016627	Tajikistan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
016947	Tajikistan	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.212V1230-2015
018436	Tajikistan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
012497	Turkmenistan	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.212V1230-2015
016627	Turkmenistan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
016947	Turkmenistan	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.212V1230-2015
018436	Turkmenistan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.212V1230-2015
012497	Armenia	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
016627	Armenia	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
016947	Armenia	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.213V1240-2015
018436	Armenia	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
012497	Azerbaijan	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
016627	Azerbaijan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
016947	Azerbaijan	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.213V1240-2015
018436	Azerbaijan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
EP2034625	Belgium	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
012497	Belarus	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
016627	Belarus	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
016947	Belarus	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.213V1240-2015
018436	Belarus	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015

EP2034625	Switzerland	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
ZL200680038892.8	China P.R.	Granted	Terminal apparatus, base station apparatus and communication system	ATIS.3GPP.36.213V1240-2015
ZL200810184724.0	China P.R.	Granted	Wireless transmitter	ATIS.3GPP.36.213V1240-2015
HK1130128	Hong Kong	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
ZL200810184723.6	China P.R.	Granted	Terminal apparatus, base station apparatus and communication system	ATIS.3GPP.36.213V1240-2015
HK1130126	Hong Kong	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
ZL200810184725.5	China P.R.	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS, AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
HK1130127	Hong Kong	Granted	WIRELESS RECEIVER	ATIS.3GPP.36.213V1240-2015
8,111,743	United States	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
8,107,897	United States	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
8,121,184	United States	Granted	WIRELESS RECEIVER	ATIS.3GPP.36.213V1240-2015
8,121,559	United States	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
8,116,708	United States	Granted	WIRELESS RECEIVER	ATIS.3GPP.36.213V1240-2015
8,170,512	United States	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
EP1944882	Germany	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
EP2034625	Germany	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
EP2037592	Germany	Granted	Wireless receiver	ATIS.3GPP.36.213V1240-2015
EP2034624	Germany	Granted	Wireless transmitter	ATIS.3GPP.36.213V1240-2015
012497	Eurasian Patent Convention	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
016627	Eurasian Patent Convention	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
016947	Eurasian Patent Convention	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.213V1240-2015
018436	Eurasian Patent Convention	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
EP1944882	European Patent Convention	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
EP2034625	European Patent Convention	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
EP2037592	European Patent Convention	Granted	Wireless receiver	ATIS.3GPP.36.213V1240-2015
EP2034624	European Patent Convention	Granted	Wireless transmitter	ATIS.3GPP.36.213V1240-2015
EP1944882	Spain	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
EP2037592	Spain	Granted	Wireless receiver	ATIS.3GPP.36.213V1240-2015
EP2034624	Spain	Granted	Wireless transmitter	ATIS.3GPP.36.213V1240-2015
EP1944882	Finland	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
EP2034624	Finland	Granted	Wireless transmitter	ATIS.3GPP.36.213V1240-2015
EP1944882	France	Granted	TERMINAL, STATION DE BASE ET SYSTEME DE COMMUNICATION	ATIS.3GPP.36.213V1240-2015

EP2034625	France	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
EP2037592	France	Granted	Wireless receiver	ATIS.3GPP.36.213V1240-2015
EP2034624	France	Granted	Wireless transmitter	ATIS.3GPP.36.213V1240-2015
EP1944882	Great Britain	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
EP2034625	Great Britain	Granted	Wireless transmitter	ATIS.3GPP.36.213V1240-2015
EP2037592	Great Britain	Granted	Wireless receiver	ATIS.3GPP.36.213V1240-2015
EP2034624	Great Britain	Granted	Wireless transmitter	ATIS.3GPP.36.213V1240-2015
EP1944882	Hungary	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
EP2034625	Hungary	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
EP2034624	Hungary	Granted	Wireless transmitter	ATIS.3GPP.36.213V1240-2015
IDP0027399	Indonesia	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
IDP0032073	Indonesia	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
IDP0027311	Indonesia	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
IDP0027400	Indonesia	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
EP2034625	Ireland	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
1943/CHENP/2008	India	Pending	TERMINAL APPARATUS, BASE STATION APPARATUS, AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
267742	India	Granted	WIRELESS RECEIVER	ATIS.3GPP.36.213V1240-2015
274129	India	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
268063	India	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
EP1944882	Italy	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
EP2037592	Italy	Granted	Wireless receiver	ATIS.3GPP.36.213V1240-2015
EP2034624	Italy	Granted	Wireless transmitter	ATIS.3GPP.36.213V1240-2015
4503650	Japan	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
4405573	Japan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
4405574	Japan	Granted	WIRELESS RECEIVER	ATIS.3GPP.36.213V1240-2015
5101641	Japan	Granted	RADIO RECEIVER	ATIS.3GPP.36.213V1240-2015
012497	Kyrgyzstan	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
016627	Kyrgyzstan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
016947	Kyrgyzstan	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.213V1240-2015
018436	Kyrgyzstan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015

012497	Kazakhstan	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
016627	Kazakhstan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
016947	Kazakhstan	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.213V1240-2015
018436	Kazakhstan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
EP2034625	Luxembourg	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
EP2034625	Monaco	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
012497	Moldova	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
016627	Moldova	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
016947	Moldova	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.213V1240-2015
018436	Moldova	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
EP1944882	Poland	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
EP2037592	Poland	Granted	Wireless receiver	ATIS.3GPP.36.213V1240-2015
EP2034624	Poland	Granted	Wireless transmitter	ATIS.3GPP.36.213V1240-2015
EP2034625	Portugal	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
EP1944882	Romania	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
EP2034624	Romania	Granted	Wireless transmitter	ATIS.3GPP.36.213V1240-2015
012497	Russian Federation	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
016627	Russian Federation	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
016947	Russian Federation	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.213V1240-2015
018436	Russian Federation	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
012497	Tajikistan	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
016627	Tajikistan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
016947	Tajikistan	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.213V1240-2015
018436	Tajikistan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
012497	Turkmenistan	Granted	TERMINAL APPARATUS, BASE STATION APPARATUS AND COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
016627	Turkmenistan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
016947	Turkmenistan	Granted	WIRELESS RECEIVING UNIT	ATIS.3GPP.36.213V1240-2015
018436	Turkmenistan	Granted	WIRELESS TRANSMITTER	ATIS.3GPP.36.213V1240-2015
8,107,418	United States	Granted	Mobile communication system, mobile station apparatus, base station apparatus, mobile communication method, program and recording medium	ATIS.3GPP.36.211V1240-2015
ZL200680035688.0	China P.R.	Granted	Mobile communication system, mobile station apparatus, base station apparatus, mobile communication method	ATIS.3GPP.36.211V1240-2015

06781589.4	European Patent Convention	Pending	Mobile communication system, mobile station apparatus, base station apparatus, mobile communication method, program and recording medium	ATIS.3GPP.36.211V1240-2015
4628424	Japan	Granted	Mobile communication system, mobile station apparatus, base station apparatus, mobile communication method, program and recording medium	ATIS.3GPP.36.211V1240-2015
8,107,418	United States	Granted	Mobile communication system, mobile station apparatus, base station apparatus, mobile communication method, program and recording medium	ATIS.3GPP.36.212V1230-2015
ZL200680035688.0	China P.R.	Granted	Mobile communication system, mobile station apparatus, base station apparatus, mobile communication method	ATIS.3GPP.36.212V1230-2015
06781589.4	European Patent Convention	Pending	Mobile communication system, mobile station apparatus, base station apparatus, mobile communication method, program and recording medium	ATIS.3GPP.36.212V1230-2015
4628424	Japan	Granted	Mobile communication system, mobile station apparatus, base station apparatus, mobile communication method, program and recording medium	ATIS.3GPP.36.212V1230-2015
8,107,418	United States	Granted	Mobile communication system, mobile station apparatus, base station apparatus, mobile communication method, program and recording medium	ATIS.3GPP.36.213V1240-2015
ZL200680035688.0	China P.R.	Granted	Mobile communication system, mobile station apparatus, base station apparatus, mobile communication method	ATIS.3GPP.36.213V1240-2015
06781589.4	European Patent Convention	Pending	Mobile communication system, mobile station apparatus, base station apparatus, mobile communication method, program and recording medium	ATIS.3GPP.36.213V1240-2015
4628424	Japan	Granted	Mobile communication system, mobile station apparatus, base station apparatus, mobile communication method, program and recording medium	ATIS.3GPP.36.213V1240-2015
7,948,960	United States	Granted	RADIO TRANSMISSION DEVICE	ATIS.3GPP.36.211V1240-2015
ZL201110202902.X	China P.R.	Granted	Radio transmission device	ATIS.3GPP.36.211V1240-2015
ZL200580031925.1	China P.R.	Granted	Radio transmission device	ATIS.3GPP.36.211V1240-2015
ZL201010559380.4	China P.R.	Granted	Radio transmission device	ATIS.3GPP.36.211V1240-2015
8,422,478	United States	Granted	RADIO TRANSMISSION DEVICE	ATIS.3GPP.36.211V1240-2015
8,416,757	United States	Granted	RADIO TRANSMISSION DEVICE	ATIS.3GPP.36.211V1240-2015
05785963.9	European Patent Convention	Pending	RADIO TRANSMISSION DEVICE	ATIS.3GPP.36.211V1240-2015
11156427.4	European Patent Convention	Pending	Radio transmission device	ATIS.3GPP.36.211V1240-2015
11173661.7	European Patent Convention	Pending	Radio transmission device	ATIS.3GPP.36.211V1240-2015
4387414	Japan	Granted	RADIO TRANSMISSION DEVICE	ATIS.3GPP.36.211V1240-2015
7,948,960	United States	Granted	RADIO TRANSMISSION DEVICE	ATIS.3GPP.36.212V1230-2015
ZL201110202902.X	China P.R.	Granted	Radio transmission device	ATIS.3GPP.36.212V1230-2015
ZL200580031925.1	China P.R.	Granted	Radio transmission device	ATIS.3GPP.36.212V1230-2015
ZL201010559380.4	China P.R.	Granted	Radio transmission device	ATIS.3GPP.36.212V1230-2015
8,422,478	United States	Granted	RADIO TRANSMISSION DEVICE	ATIS.3GPP.36.212V1230-2015
8,416,757	United States	Granted	RADIO TRANSMISSION DEVICE	ATIS.3GPP.36.212V1230-2015
05785963.9	European Patent Convention	Pending	RADIO TRANSMISSION DEVICE	ATIS.3GPP.36.212V1230-2015
11156427.4	European Patent Convention	Pending	Radio transmission device	ATIS.3GPP.36.212V1230-2015
11173661.7	European Patent Convention	Pending	Radio transmission device	ATIS.3GPP.36.212V1230-2015
4387414	Japan	Granted	RADIO TRANSMISSION DEVICE	ATIS.3GPP.36.212V1230-2015
7,948,960	United States	Granted	RADIO TRANSMISSION DEVICE	ATIS.3GPP.36.213V1240-2015
ZL201110202902.X	China P.R.	Granted	Radio transmission device	ATIS.3GPP.36.213V1240-2015

ZL200580031925.1	China P.R.	Granted	Radio transmission device	ATIS.3GPP.36.213V1240-2015
ZL201010559380.4	China P.R.	Granted	Radio transmission device	ATIS.3GPP.36.213V1240-2015
8,422,478	United States	Granted	RADIO TRANSMISSION DEVICE	ATIS.3GPP.36.213V1240-2015
8,416,757	United States	Granted	RADIO TRANSMISSION DEVICE	ATIS.3GPP.36.213V1240-2015
05785963.9	European Patent Convention	Pending	RADIO TRANSMISSION DEVICE	ATIS.3GPP.36.213V1240-2015
11156427.4	European Patent Convention	Pending	Radio transmission device	ATIS.3GPP.36.213V1240-2015
11173661.7	European Patent Convention	Pending	Radio transmission device	ATIS.3GPP.36.213V1240-2015
4387414	Japan	Granted	RADIO TRANSMISSION DEVICE	ATIS.3GPP.36.213V1240-2015
7,447,169	United States	Granted	RADIO COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
ZL03805710.7	China P.R.	Granted	Radio communication system	ATIS.3GPP.36.213V1240-2015
3898533	Japan	Granted	WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
10-0655237	Republic of Korea	Granted	RADIO COMMUNICATION SYSTEM	ATIS.3GPP.36.213V1240-2015
15/224,272	United States	Pending	AVOIDING UNNECESSARY PROTOCOL DATA UNIT (PDU) TRANSMISSIONS	ATIS.3GPP.36.323V860-2010
PCT/US2016/044971	Patent Cooperation Treaty	Pending	Avoiding unnecessary protocol data unit (PDU) transmissions	ATIS.3GPP.36.323V860-2010
15/224,272	United States	Pending	AVOIDING UNNECESSARY PROTOCOL DATA UNIT (PDU) TRANSMISSIONS	ATIS.3GPP.36.331V8210-2016
PCT/US2016/044971	Patent Cooperation Treaty	Pending	Avoiding unnecessary protocol data unit (PDU) transmissions	ATIS.3GPP.36.331V8210-2016
15/218,830	United States	Pending	Scheduler methods for data aggregation over multiple links	ATIS.3GPP.36.331V8210-2016
PCT/US2016/043989	Patent Cooperation Treaty	Pending	Scheduler methods for data aggregation over multiple links	ATIS.3GPP.36.331V8210-2016
15/216,442	United States	Pending	BUNDLE SIZE DETERMINATION FOR NARROWBAND COMMUNICATION	ATIS.3GPP.36.211V1240-2015
62/222,686	United States	Pending	Bundle size determination for narrowband communication	ATIS.3GPP.36.211V1240-2015
PCT/US2016/043694	Patent Cooperation Treaty	Pending	Bundle size determination for narrowband communication	ATIS.3GPP.36.211V1240-2015
15/224,877	United States	Pending	CONFIGURABLE THRESHOLD FOR FORMAT SELECTION FOR ENHANCED CARRIER AGGREGATION	ATIS.3GPP.36.213V1240-2015
PCT/US2016/045111	Patent Cooperation Treaty	Pending	Configurable threshold for format selection for enhanced carrier aggregation	ATIS.3GPP.36.213V1240-2015
15/210,652	United States	Pending	MOBILITY DESIGN FOR eMTC	ATIS.3GPP.36.331V8210-2016
105122668	Taiwan	Pending	Mobility design for eMTC	ATIS.3GPP.36.331V8210-2016
PCT/US2016/042840	Patent Cooperation Treaty	Pending	Mobility design for eMTC	ATIS.3GPP.36.331V8210-2016
62/233,036	United States	Pending	AUTONOMOUS MEASUREMENT GAP REDUCTION	ATIS.3GPP.36.133V1260-2015
15/192,452	United States	Pending	CHANNEL STATION INFORMATION REPORTING AND TRANSMISSION MODE FOR ENHANCED MACHINE TYPE COMMUNICATION	ATIS.3GPP.36.213V1240-2015
62/254,845	United States	Pending	CHANNEL STATION INFORMATION REPORTING AND TRANSMISSION MODE FOR ENHANCED MACHINE TYPE COMMUNICATION	ATIS.3GPP.36.213V1240-2015
PCT/US2016/052423	Patent Cooperation Treaty	Pending	Channel station information reporting and transmission mode for enhanced machine type communication	ATIS.3GPP.36.213V1240-2015
15/234,634	United States	Pending	CHANNEL STATE COMPUTATION FOR ENHANCED CARRIER AGGREGATION	ATIS.3GPP.36.213V1240-2015
62/233,262	United States	Pending	CHANNEL STATE COMPUTATION FOR ENHANCED CARRIER AGGREGATION	ATIS.3GPP.36.213V1240-2015
105125802	Taiwan	Pending	Channel state computation for enhanced carrier aggregation	ATIS.3GPP.36.213V1240-2015
PCT/US2016/046736	Patent Cooperation Treaty	Pending	Channel state computation for enhanced carrier aggregation	ATIS.3GPP.36.213V1240-2015
15/245,498	United States	Pending	CLEAN-SLATE SYNCHRONIZATION SIGNAL DESIGN AND CELL SEARCH ALGORITHMS	ATIS.3GPP.36.211V1240-2015

62/251,637	United States	Pending	CLEAN-SLATE SYNCHRONIZATION SIGNAL DESIGN AND CELL SEARCH ALGORITHMS	ATIS.3GPP.36.211V1240-2015
62/298,444	United States	Pending	CLEAN-SLATE SYNCHRONIZATION SIGNAL DESIGN AND CELL SEARCH ALGORITHMS	ATIS.3GPP.36.211V1240-2015
62/322,709	United States	Pending	CLEAN-SLATE SYNCHRONIZATION SIGNAL DESIGN AND CELL SEARCH ALGORITHM	ATIS.3GPP.36.211V1240-2015
UNKNOWN	Taiwan	Pending	Clean-slate synchronization signal design and cell search algorithms	ATIS.3GPP.36.211V1240-2015
PCT/US2016/048545	Patent Cooperation Treaty	Pending	Clean-slate synchronization signal design and cell search algorithms	ATIS.3GPP.36.211V1240-2015
15/269,037	United States	Pending	DESIGN OF SEARCH SPACES AND GRANTS IN EMTC	ATIS.3GPP.36.213V1240-2015
62/252,268	United States	Pending	DESIGN OF SEARCH SPACES AND GRANTS IN EMTC	ATIS.3GPP.36.213V1240-2015
UNKNOWN	Taiwan	Pending	Design of search spaces and grants in eMTC	ATIS.3GPP.36.213V1240-2015
PCT/US2016/052617	Patent Cooperation Treaty	Pending	Design of search spaces and grants in eMTC	ATIS.3GPP.36.213V1240-2015
15/270,720	United States	Pending	DISCOVERY REFERENCE SIGNAL CONFIGURATION AND SCRAMBLING IN LICENSED-ASSISTED ACCESS	ATIS.3GPP.36.211V1240-2015
62/252,271	United States	Pending	DISCOVERY REFERENCE SIGNAL CONFIGURATION AND SCRAMBLING IN LICENSED-ASSISTED ACCESS	ATIS.3GPP.36.211V1240-2015
PCT/US2016/052775	Patent Cooperation Treaty	Pending	Discovery reference signal configuration and scrambling in licensed-assisted access	ATIS.3GPP.36.211V1240-2015
62/255,890	United States	Pending	TECHNIQUES FOR DOWNLINK ASSIGNMENT INDEX (DAI) MANAGEMENT IN CARRIER AGGREGATION	ATIS.3GPP.36.212V1230-2015
62/255,890	United States	Pending	TECHNIQUES FOR DOWNLINK ASSIGNMENT INDEX (DAI) MANAGEMENT IN CARRIER AGGREGATION	ATIS.3GPP.36.213V1240-2015
62/255,451	United States	Pending	SOUNDING REFERENCE SIGNAL TRANSMISSIONS IN ENHANCED MACHINE TYPE COMMUNICATION	ATIS.3GPP.36.213V1240-2015
62/374,128	United States	Pending	SOUNDING REFERENCE SIGNAL TRANSMISSIONS IN ENHANCED MACHINE TYPE COMMUNICATION	ATIS.3GPP.36.213V1240-2015
6,542,743	United States	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.331V8250-2016
PI0013632-8	Brazil	Pending	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.331V8250-2016
7,236,796	United States	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.331V8250-2016
ZL00812116.8	China P.R.	Granted	Method and apparatus for reducing pilot search times utilizing mobile station location information	ATIS.3GPP.25.331V8250-2016
EP1208655	Germany	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.331V8250-2016
EP1208655	European Patent Convention	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.331V8250-2016
04025864.2	European Patent Convention	Pending	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.331V8250-2016
EP1208655	Great Britain	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.331V8250-2016
ID0015082	Indonesia	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.331V8250-2016

202417	India	Granted	Method and apparatus for conducting pilot signal search	ATIS.3GPP.25.331V8250-2016
4541622	Japan	Granted	Method and apparatus for reducing pilot search times utilizing mobile station location information	ATIS.3GPP.25.331V8250-2016
4634425	Japan	Granted	Method and apparatus for reducing pilot search times utilizing mobile station location information	ATIS.3GPP.25.331V8250-2016
10-0777947	Republic of Korea	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.331V8250-2016
10-0834321	Republic of Korea	Granted	Method and apparatus for reducing pilot search times utilizing mobile station location information	ATIS.3GPP.25.331V8250-2016
10-0870842	Republic of Korea	Granted	Method and apparatus for reducing pilot search times utilizing mobile station location information	ATIS.3GPP.25.331V8250-2016
225609	Mexico	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.331V8250-2016
156228	Taiwan	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.331V8250-2016
2257008	Russian Federation	Granted	Method for decreasing search time of pilot signal with use of information about position of mobile station and device for realization of said method.	ATIS.3GPP.25.331V8250-2016
71022	Ukraine	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.331V8250-2016
6,542,743	United States	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.413V880-2012
PI0013632-8	Brazil	Pending	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.413V880-2012
7,236,796	United States	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.413V880-2012
ZL00812116.8	China P.R.	Granted	Method and apparatus for reducing pilot search times utilizing mobile station location information	ATIS.3GPP.25.413V880-2012
EP1208655	Germany	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.413V880-2012
EP1208655	European Patent Convention	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.413V880-2012
04025864.2	European Patent Convention	Pending	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.413V880-2012
EP1208655	Great Britain	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.413V880-2012
ID0015082	Indonesia	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.413V880-2012
202417	India	Granted	Method and apparatus for conducting pilot signal search	ATIS.3GPP.25.413V880-2012
4541622	Japan	Granted	Method and apparatus for reducing pilot search times utilizing mobile station location information	ATIS.3GPP.25.413V880-2012
4634425	Japan	Granted	Method and apparatus for reducing pilot search times utilizing mobile station location information	ATIS.3GPP.25.413V880-2012

10-0777947	Republic of Korea	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.413V880-2012
10-0834321	Republic of Korea	Granted	Method and apparatus for reducing pilot search times utilizing mobile station location information	ATIS.3GPP.25.413V880-2012
10-0870842	Republic of Korea	Granted	Method and apparatus for reducing pilot search times utilizing mobile station location information	ATIS.3GPP.25.413V880-2012
225609	Mexico	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.413V880-2012
156228	Taiwan	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.413V880-2012
2257008	Russian Federation	Granted	Method for decreasing search time of pilot signal with use of information about position of mobile station and device for realization of said method.	ATIS.3GPP.25.413V880-2012
71022	Ukraine	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.413V880-2012
6,542,743	United States	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.430V800-2009
PI0013632-8	Brazil	Pending	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.430V800-2009
7,236,796	United States	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.430V800-2009
ZL00812116.8	China P.R.	Granted	Method and apparatus for reducing pilot search times utilizing mobile station location information	ATIS.3GPP.25.430V800-2009
EP1208655	Germany	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.430V800-2009
EP1208655	European Patent Convention	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.430V800-2009
04025864.2	European Patent Convention	Pending	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.430V800-2009
EP1208655	Great Britain	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.430V800-2009
ID0015082	Indonesia	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.430V800-2009
202417	India	Granted	Method and apparatus for conducting pilot signal search	ATIS.3GPP.25.430V800-2009
4541622	Japan	Granted	Method and apparatus for reducing pilot search times utilizing mobile station location information	ATIS.3GPP.25.430V800-2009
4634425	Japan	Granted	Method and apparatus for reducing pilot search times utilizing mobile station location information	ATIS.3GPP.25.430V800-2009
10-0777947	Republic of Korea	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.430V800-2009
10-0834321	Republic of Korea	Granted	Method and apparatus for reducing pilot search times utilizing mobile station location information	ATIS.3GPP.25.430V800-2009
10-0870842	Republic of Korea	Granted	Method and apparatus for reducing pilot search times utilizing mobile station location information	ATIS.3GPP.25.430V800-2009

225609	Mexico	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.430V800-2009
156228	Taiwan	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.430V800-2009
2257008	Russian Federation	Granted	Method for decreasing search time of pilot signal with use of information about position of mobile station and device for realization of said method.	ATIS.3GPP.25.430V800-2009
71022	Ukraine	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.430V800-2009
6,542,743	United States	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.453V830-2016
PI0013632-8	Brazil	Pending	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.453V830-2016
7,236,796	United States	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.453V830-2016
ZL00812116.8	China P.R.	Granted	Method and apparatus for reducing pilot search times utilizing mobile station location information	ATIS.3GPP.25.453V830-2016
EP1208655	Germany	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.453V830-2016
EP1208655	European Patent Convention	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.453V830-2016
04025864.2	European Patent Convention	Pending	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.453V830-2016
EP1208655	Great Britain	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.453V830-2016
ID0015082	Indonesia	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.453V830-2016
202417	India	Granted	Method and apparatus for conducting pilot signal search	ATIS.3GPP.25.453V830-2016
4541622	Japan	Granted	Method and apparatus for reducing pilot search times utilizing mobile station location information	ATIS.3GPP.25.453V830-2016
4634425	Japan	Granted	Method and apparatus for reducing pilot search times utilizing mobile station location information	ATIS.3GPP.25.453V830-2016
10-0777947	Republic of Korea	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.453V830-2016
10-0834321	Republic of Korea	Granted	Method and apparatus for reducing pilot search times utilizing mobile station location information	ATIS.3GPP.25.453V830-2016
10-0870842	Republic of Korea	Granted	Method and apparatus for reducing pilot search times utilizing mobile station location information	ATIS.3GPP.25.453V830-2016
225609	Mexico	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.453V830-2016
156228	Taiwan	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.453V830-2016

2257008	Russian Federation	Granted	Method for decreasing search time of pilot signal with use of information about position of mobile station and device for realization of said method.	ATIS.3GPP.25.453V830-2016
71022	Ukraine	Granted	Method and Apparatus for Reducing Pilot Search Times Utilizing Mobile Station Location Information	ATIS.3GPP.25.453V830-2016
7,369,599	United States	Granted	Method and Apparatus for Reducing Code Phase Search Space	ATIS.3GPP.25.331V8250-2016
7,738,531	United States	Granted	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.331V8250-2016
ZL01814423.3	China P.R.	Granted	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.331V8250-2016
01954780.1	European Patent Convention	Pending	Method and Apparatus for Reducing Code Phase Search Space	ATIS.3GPP.25.331V8250-2016
10016171.0	European Patent Convention	Pending	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.331V8250-2016
14186629.3	European Patent Convention	Pending	Method and Apparatus for Reducing Code Phase Search Space	ATIS.3GPP.25.331V8250-2016
IDP0024291	Indonesia	Granted	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.331V8250-2016
205974	India	Granted	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.331V8250-2016
2013-000185	Japan	Pending	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.331V8250-2016
2014-256482	Japan	Pending	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.331V8250-2016
10-1049836	Republic of Korea	Granted	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.331V8250-2016
7,369,599	United States	Granted	Method and Apparatus for Reducing Code Phase Search Space	ATIS.3GPP.25.413V880-2012
7,738,531	United States	Granted	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.413V880-2012
ZL01814423.3	China P.R.	Granted	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.413V880-2012
01954780.1	European Patent Convention	Pending	Method and Apparatus for Reducing Code Phase Search Space	ATIS.3GPP.25.413V880-2012
10016171.0	European Patent Convention	Pending	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.413V880-2012
14186629.3	European Patent Convention	Pending	Method and Apparatus for Reducing Code Phase Search Space	ATIS.3GPP.25.413V880-2012
IDP0024291	Indonesia	Granted	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.413V880-2012
205974	India	Granted	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.413V880-2012
2013-000185	Japan	Pending	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.413V880-2012
2014-256482	Japan	Pending	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.413V880-2012
10-1049836	Republic of Korea	Granted	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.413V880-2012
7,369,599	United States	Granted	Method and Apparatus for Reducing Code Phase Search Space	ATIS.3GPP.25.430V800-2009
7,738,531	United States	Granted	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.430V800-2009
ZL01814423.3	China P.R.	Granted	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.430V800-2009
01954780.1	European Patent Convention	Pending	Method and Apparatus for Reducing Code Phase Search Space	ATIS.3GPP.25.430V800-2009
10016171.0	European Patent Convention	Pending	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.430V800-2009
14186629.3	European Patent Convention	Pending	Method and Apparatus for Reducing Code Phase Search Space	ATIS.3GPP.25.430V800-2009
IDP0024291	Indonesia	Granted	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.430V800-2009
205974	India	Granted	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.430V800-2009
2013-000185	Japan	Pending	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.430V800-2009
2014-256482	Japan	Pending	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.430V800-2009
10-1049836	Republic of Korea	Granted	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.430V800-2009
7,369,599	United States	Granted	Method and Apparatus for Reducing Code Phase Search Space	ATIS.3GPP.25.453V830-2016
7,738,531	United States	Granted	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.453V830-2016
ZL01814423.3	China P.R.	Granted	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.453V830-2016

01954780.1	European Patent Convention	Pending	Method and Apparatus for Reducing Code Phase Search Space	ATIS.3GPP.25.453V830-2016
10016171.0	European Patent Convention	Pending	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.453V830-2016
14186629.3	European Patent Convention	Pending	Method and Apparatus for Reducing Code Phase Search Space	ATIS.3GPP.25.453V830-2016
IDP0024291	Indonesia	Granted	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.453V830-2016
205974	India	Granted	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.453V830-2016
2013-000185	Japan	Pending	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.453V830-2016
2014-256482	Japan	Pending	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.453V830-2016
10-1049836	Republic of Korea	Granted	Method and apparatus for reducing code phase search space	ATIS.3GPP.25.453V830-2016
7,054,284	United States	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2146450	Austria	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
775029	Australia	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2146450	Belgium	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
PI0011848-6	Brazil	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
2374199	Canada	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2146450	Switzerland	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
ZL00809366.0	China P.R.	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
ZL200410035122.0	China P.R.	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
2312462	Russian Federation	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
2428799	Russian Federation	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP1192741	Germany	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP1513275	Germany	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2088699	Germany	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2146450	Germany	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2146450	Denmark	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP1192741	European Patent Convention	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP1513275	European Patent Convention	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016

HK1075980	Hong Kong	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2088699	European Patent Convention	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
HK1137870	Hong Kong	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2146450	European Patent Convention	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
HK1140587	Hong Kong	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP1513275	Spain	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2088699	Spain	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2146450	Spain	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP1192741	Finland	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP1513275	Finland	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2146450	Finland	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP1192741	France	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP1513275	France	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2088699	France	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2146450	France	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP1192741	Great Britain	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP1513275	Great Britain	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2088699	Great Britain	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2146450	Great Britain	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2146450	Greece	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
HK1045225	Hong Kong	Granted	Method and wireless apparatus for supervising a channel	ATIS.3GPP.25.331V8250-2016
HK1068745	Hong Kong	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016

EP2146450	Ireland	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
182531	Israel	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
202113	India	Granted	A method and apparatus for supervising a channel	ATIS.3GPP.25.331V8250-2016
EP1192741	Italy	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP1513275	Italy	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2088699	Italy	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2146450	Italy	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
4773009	Japan	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
5149407	Japan	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
5149408	Japan	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
5149409	Japan	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
10-0671294	Republic of Korea	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
235673	Mexico	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP1513275	Netherlands	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2146450	Netherlands	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
325926	Norway	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2146450	Portugal	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
162652	Taiwan	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
2263403	Russian Federation	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP1192741	Sweden	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP1513275	Sweden	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
EP2146450	Sweden	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016

85408	Singapore	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
UA66928	Ukraine	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.25.331V8250-2016
6,480,472	United States	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
PI0012558-0	Brazil	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
7,881,256	United States	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
2378884	Canada	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
2578317	Canada	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
ZL00810534.0	China P.R.	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
EP1198965	Germany	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
EP1511345	Germany	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
EP2237631	Germany	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
EP1198965	European Patent Convention	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
EP1511345	European Patent Convention	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
EP2237631	European Patent Convention	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
EP1511345	Spain	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
EP2237631	Spain	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
EP1198965	France	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
EP1511345	France	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
EP2237631	France	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
EP1198965	Great Britain	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
EP1511345	Great Britain	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
EP2237631	Great Britain	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012

IDP000027018	Indonesia	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
238349	India	Granted	A method and apparatus for supervising a dedicated control channel	ATIS.3GPP.25.224V890-2012
247158	India	Granted	A method and apparatus for supervising transmissions from a remote station	ATIS.3GPP.25.224V890-2012
EP1198965	Italy	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
EP1511345	Italy	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
EP2237631	Italy	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
4508508	Japan	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
5254267	Japan	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
10-0751973	Republic of Korea	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
230008	Mexico	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
EP1511345	Netherlands	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
2241311	Russian Federation	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
EP1511345	Sweden	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
72765	Ukraine	Granted	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	ATIS.3GPP.25.224V890-2012
6,366,561	United States	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
EP2009946	Austria	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
EP2009946	Belgium	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
PI0015249-8	Brazil	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
EP2009946	Switzerland	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
ZL00818172.1	China P.R.	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
ZL200610003724.7	China P.R.	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
7,272,138	United States	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
EP1226735	Germany	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
EP2009946	Germany	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
EP2009946	Denmark	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
EP1226735	European Patent Convention	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
EP2009946	European Patent Convention	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
EP2009946	Spain	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
EP2009946	Finland	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
EP1226735	France	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016

EP2009946	France	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
EP1226735	Great Britain	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
EP2009946	Great Britain	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
EP2009946	Greece	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
HK1052607	Hong Kong	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
EP2009946	Ireland	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
EP2009946	Italy	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
4638109	Japan	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
4819962	Japan	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
10-0860280	Republic of Korea	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
10-0899365	Republic of Korea	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
EP2009946	Netherlands	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
EP2009946	Portugal	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
EP2009946	Sweden	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.25.331V8250-2016
6,618,375	United States	Granted	Radio link protocol frame sorting mechanism for dynamic capacity wireless data channels	ATIS.3GPP.25.322V890-2012
PI0013933-5	Brazil	Pending	Radio link protocol frame sorting mechanism for dynamic capacity wireless data channels	ATIS.3GPP.25.322V890-2012
20021208	Norway	Pending	Radio link protocol frame sorting mechanism for dynamic capacity wireless data channels	ATIS.3GPP.25.322V890-2012
70383	Ukraine	Granted	Radio link protocol frame sorting mechanism for dynamic capacity wireless data channels	ATIS.3GPP.25.322V890-2012
6,563,810	United States	Granted	Closed loop resource allocation	ATIS.3GPP.25.321V8170-2014
EP2107841	Austria	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
EP2107841	Belgium	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
PI0014397-9	Brazil	Pending	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	ATIS.3GPP.25.321V8170-2014
7,339,894	United States	Granted	Closed Loop Resource Allocation	ATIS.3GPP.25.321V8170-2014
7,680,052	United States	Granted	Closed loop resource allocation	ATIS.3GPP.25.321V8170-2014
EP2107841	Switzerland	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
ZL00813540.1	China P.R.	Granted	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	ATIS.3GPP.25.321V8170-2014
EP1216595	Germany	Granted	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	ATIS.3GPP.25.321V8170-2014
EP1796423	Germany	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
EP2107841	Germany	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
EP2107841	Denmark	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014

EP1216595	European Patent Convention	Granted	Closed Loop Resource Allocation in a High Speed Wireless Communications Network	ATIS.3GPP.25.321V8170-2014
EP1796423	European Patent Convention	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
EP2107841	European Patent Convention	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
HK1137888	Hong Kong	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
EP1216595	Spain	Granted	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	ATIS.3GPP.25.321V8170-2014
EP1796423	Spain	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
EP2107841	Spain	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
EP1216595	Finland	Granted	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	ATIS.3GPP.25.321V8170-2014
EP1796423	Finland	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
EP2107841	Finland	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
EP1216595	France	Granted	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	ATIS.3GPP.25.321V8170-2014
EP1796423	France	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
EP2107841	France	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
EP1216595	Great Britain	Granted	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	ATIS.3GPP.25.321V8170-2014
EP1796423	Great Britain	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
EP2107841	Great Britain	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
EP2107841	Greece	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
HK1047850	Hong Kong	Granted	Closed-loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
HK1109826	Hong Kong	Granted	Closed Loop Resource Allocation in a High Speed Wireless Communications Network	ATIS.3GPP.25.321V8170-2014
EP1216595	Ireland	Granted	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	ATIS.3GPP.25.321V8170-2014
EP1796423	Ireland	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
EP2107841	Ireland	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014

EP1216595	Italy	Granted	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	ATIS.3GPP.25.321V8170-2014
EP1796423	Italy	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
EP2107841	Italy	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
4991067	Japan	Granted	Closed-loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
5038479	Japan	Granted	Closed-loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
5242828	Japan	Granted	Closed-loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
10-0752085	Republic of Korea	Granted	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	ATIS.3GPP.25.321V8170-2014
EP1216595	Netherlands	Granted	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	ATIS.3GPP.25.321V8170-2014
EP1796423	Netherlands	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
EP2107841	Netherlands	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
EP2107841	Portugal	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
153836	Taiwan	Granted	Closed-Loop Resource Allocation	ATIS.3GPP.25.321V8170-2014
EP2107841	Romania	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
EP2107841	Sweden	Granted	Closed loop resource allocation in a high speed wireless communications network	ATIS.3GPP.25.321V8170-2014
EP0584241	Belgium	Granted	Method and Apparatus for Controlling Transmission Power in a CDMA Cellular Mobile Telephone System	ATIS.3GPP.25.102V8130-2014
EP0584241	Belgium	Granted	Method and Apparatus for Controlling Transmission Power in a CDMA Cellular Mobile Telephone System	ATIS.3GPP.25.223V850-2012
EP0584241	Belgium	Granted	Method and Apparatus for Controlling Transmission Power in a CDMA Cellular Mobile Telephone System	ATIS.3GPP.25.224V890-2012
EP0584241	Belgium	Granted	Method and Apparatus for Controlling Transmission Power in a CDMA Cellular Mobile Telephone System	ATIS.3GPP.25.331V8250-2016
EP0584241	Belgium	Granted	Method and Apparatus for Controlling Transmission Power in a CDMA Cellular Mobile Telephone System	ATIS.3GPP.45.002V810-2012
EP0584241	Belgium	Granted	Method and Apparatus for Controlling Transmission Power in a CDMA Cellular Mobile Telephone System	ATIS.3GPP.45.008V8160-2014
PI9106592-5	Brazil	Pending	System and method for generating signal waveforms in a CDMA cellular telephone system	ATIS.3GPP.25.221V8110-2014
PI9106592-5	Brazil	Pending	System and method for generating signal waveforms in a CDMA cellular telephone system	ATIS.3GPP.25.223V850-2012

PI9106592-5	Brazil	Pending	System and method for generating signal waveforms in a CDMA cellular telephone system	ATIS.3GPP.25.224V890-2012
PI9106592-5	Brazil	Pending	System and method for generating signal waveforms in a CDMA cellular telephone system	ATIS.3GPP.25.401V820-2009
42.101	Chile	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.25.222V890-2012
48.583	Chile	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.25.222V890-2012
42.101	Chile	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.25.302V870-2012
48.583	Chile	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.25.302V870-2012
42.101	Chile	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.44.060V8170-2014
48.583	Chile	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.44.060V8170-2014
42.101	Chile	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.45.003V830-2010
48.583	Chile	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.45.003V830-2010
PI9606833-7	Brazil	Pending	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.25.222V890-2012
MY-113574-A	Malaysia	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.25.222V890-2012
2033	Vietnam	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.25.222V890-2012
PI9606833-7	Brazil	Pending	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.25.302V870-2012
MY-113574-A	Malaysia	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.25.302V870-2012
2033	Vietnam	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.25.302V870-2012
PI9606833-7	Brazil	Pending	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.44.060V8170-2014
MY-113574-A	Malaysia	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.44.060V8170-2014
2033	Vietnam	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.44.060V8170-2014
PI9606833-7	Brazil	Pending	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.45.001V810-2010
MY-113574-A	Malaysia	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.45.001V810-2010
2033	Vietnam	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.45.001V810-2010
PI9606833-7	Brazil	Pending	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.45.002V810-2012
MY-113574-A	Malaysia	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.45.002V810-2012
2033	Vietnam	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.45.002V810-2012
PI9606833-7	Brazil	Pending	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.45.003V830-2010
MY-113574-A	Malaysia	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.45.003V830-2010
2033	Vietnam	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.45.003V830-2010
20011509	Finland	Pending	Variable rate vocoder	ATIS.3GPP.25.401V820-2009
2001-343016	Japan	Pending	Variable Rate Vocoder	ATIS.3GPP.25.401V820-2009
20011509	Finland	Pending	Variable rate vocoder	ATIS.3GPP.46.061V800-2010
2001-343016	Japan	Pending	Variable Rate Vocoder	ATIS.3GPP.46.061V800-2010
CL42.164	Chile	Granted	Method for Providing Service and Rate Negotiation in a Mobile Communication System	ATIS.3GPP.43.064V830-2010
MY-114771-A	Malaysia	Granted	Method for Providing Service and Rate Negotiation in a Mobile Communication System	ATIS.3GPP.43.064V830-2010
CL42.164	Chile	Granted	Method for Providing Service and Rate Negotiation in a Mobile Communication System	ATIS.3GPP.44.060V8170-2014

MY-114771-A	Malaysia	Granted	Method for Providing Service and Rate Negotiation in a Mobile Communication System	ATIS.3GPP.44.060V8170-2014
090780	Taiwan	Granted	Method and Apparatus for Handoff Between Different Cellular Communications Systems	ATIS.3GPP.44.018V8170-2014
090780	Taiwan	Granted	Method and Apparatus for Handoff Between Different Cellular Communications Systems	ATIS.3GPP.45.008V8160-2014
PI9509104-1	Brazil	Granted	Method and apparatus for providing broadcast messages in a communications network	ATIS.3GPP.25.221V8110-2014
01120966.5	European Patent Convention	Pending	Method and Apparatus for Providing Broadcast Messages in a Communications Network	ATIS.3GPP.25.221V8110-2014
PI9607976-2	Brazil	Pending	Method and apparatus for performing power control in a mobile communication system	ATIS.3GPP.25.224V890-2012
6,233,456	United States	Granted	Method and apparatus for adjacent coverage area handoff in communication systems	ATIS.3GPP.25.331V8250-2016
6,549,780	United States	Granted	Method and Apparatus for Adjacent Service Area Handoff in Communication Systems	ATIS.3GPP.25.331V8250-2016
2266951	Canada	Granted	Method and apparatus for adjacent service area handoff in communication systems	ATIS.3GPP.25.331V8250-2016
CL42579	Chile	Granted	Method and Apparatus for Adjacent Service Area Handoff in Communication Systems	ATIS.3GPP.25.331V8250-2016
EP1008271	Germany	Granted	Method and apparatus for adjacent coverage area handoff in communication systems	ATIS.3GPP.25.331V8250-2016
EP1008271	European Patent Convention	Granted	Method and apparatus for adjacent coverage area handoff in communication systems	ATIS.3GPP.25.331V8250-2016
EP1008271	France	Granted	Method and apparatus for adjacent coverage area handoff in communication systems	ATIS.3GPP.25.331V8250-2016
EP1008271	Great Britain	Granted	Method and apparatus for adjacent coverage area handoff in communication systems	ATIS.3GPP.25.331V8250-2016
HK1029701	Hong Kong	Granted	Method and Apparatus for Adjacent Service Area Handoff in Communication Systems	ATIS.3GPP.25.331V8250-2016
212497	India	Granted	Method and Apparatus for Adjacent Service Area Handoff in Communication Systems	ATIS.3GPP.25.331V8250-2016
3993242	Japan	Granted	Method and Apparatus for Adjacent Coverage Area Handoff in Communication Systems	ATIS.3GPP.25.331V8250-2016
4083787	Japan	Granted	Method and apparatus for adjacent coverage area handoff in communication systems	ATIS.3GPP.25.331V8250-2016
10-0509406	Republic of Korea	Granted	Method and Apparatus for Adjacent Service Area Handoff in Communication Systems	ATIS.3GPP.25.331V8250-2016
217914	Mexico	Granted	Method and Apparatus for Adjacent Service Area Handoff in Communication Systems	ATIS.3GPP.25.331V8250-2016
2180159	Russian Federation	Granted	Method and Apparatus for Adjacent Service Area Handoff in Communication Systems	ATIS.3GPP.25.331V8250-2016
717217	Australia	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.304V8120-2012

PI9709558-3	Brazil	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.304V8120-2012
2660735	Canada	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.304V8120-2012
2257208	Canada	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.304V8120-2012
2600368	Canada	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.304V8120-2012
ZL02143317.8	China P.R.	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.304V8120-2012
ZL200510053183.4	China P.R.	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.304V8120-2012
ZL02143318.6	China P.R.	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.304V8120-2012
HK1055047	Hong Kong	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.304V8120-2012
EP0903053	Germany	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.304V8120-2012
EP0903053	European Patent Convention	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.304V8120-2012
117155	Finland	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.304V8120-2012
118408	Finland	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.304V8120-2012
119411	Finland	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.304V8120-2012
123264	Finland	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.304V8120-2012
EP0903053	France	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.304V8120-2012
EP0903053	Great Britain	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.304V8120-2012
HK1020473	Hong Kong	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.304V8120-2012
224585	Hungary	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.304V8120-2012
127385	Israel	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.304V8120-2012
165292	Israel	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.304V8120-2012
165573	Israel	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.304V8120-2012
201700	Israel	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.304V8120-2012

201701	Israel	Granted	Apparatus for performing idle handoff in a multiple access system	ATIS.3GPP.25.304V8120-2012
3949723	Japan	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.304V8120-2012
4598006	Japan	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.304V8120-2012
4694607	Japan	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.304V8120-2012
4598111	Japan	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.304V8120-2012
4819959	Japan	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.304V8120-2012
235465	Mexico	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.304V8120-2012
254658	Mexico	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.304V8120-2012
303183	Mexico	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.304V8120-2012
316998	Norway	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.304V8120-2012
ZL97197151.X	China P.R.	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.304V8120-2012
2185028	Russian Federation	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.304V8120-2012
60826	Singapore	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.304V8120-2012
717217	Australia	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.331V8250-2016
PI9709558-3	Brazil	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.331V8250-2016
2660735	Canada	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.331V8250-2016
2257208	Canada	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.331V8250-2016
2600368	Canada	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.331V8250-2016
ZL02143317.8	China P.R.	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.331V8250-2016
ZL200510053183.4	China P.R.	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.331V8250-2016
ZL02143318.6	China P.R.	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.331V8250-2016
HK1055047	Hong Kong	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.331V8250-2016

EP0903053	Germany	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.331V8250-2016
EP0903053	European Patent Convention	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.331V8250-2016
117155	Finland	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.331V8250-2016
118408	Finland	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.331V8250-2016
119411	Finland	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.331V8250-2016
123264	Finland	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.331V8250-2016
EP0903053	France	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.331V8250-2016
EP0903053	Great Britain	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.331V8250-2016
HK1020473	Hong Kong	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.331V8250-2016
224585	Hungary	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.331V8250-2016
127385	Israel	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.331V8250-2016
165292	Israel	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.331V8250-2016
165573	Israel	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.331V8250-2016
201700	Israel	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.331V8250-2016
201701	Israel	Granted	Apparatus for performing idle handoff in a multiple access system	ATIS.3GPP.25.331V8250-2016
3949723	Japan	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.331V8250-2016
4598006	Japan	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.331V8250-2016
4694607	Japan	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.331V8250-2016
4598111	Japan	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.331V8250-2016
4819959	Japan	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.331V8250-2016
235465	Mexico	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.331V8250-2016
254658	Mexico	Granted	Method and apparatus for performing idle handoff in a multiple access communication system	ATIS.3GPP.25.331V8250-2016

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60826	Singapore	Granted	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	ATIS.3GPP.25.331V8250-2016
6,496,543	United States	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.43.064V830-2010
722340	Australia	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.43.064V830-2010
6,496,543	United States	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.43.064V830-2010
PI9712455-9	Brazil	Pending	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.43.064V830-2010
PI9715350-8	Brazil	Pending	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.43.064V830-2010
PI9715349-4	Brazil	Pending	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.43.064V830-2010
PI9715351-6	Brazil	Pending	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.43.064V830-2010
7,949,066	United States	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.43.064V830-2010
8,085,865	United States	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.43.064V830-2010
8,891,663	United States	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.43.064V830-2010
2269223	Canada	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.43.064V830-2010
CL47.802	Chile	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.43.064V830-2010
ZL200410011924.8	China P.R.	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.43.064V830-2010
ZL02105508.4	China P.R.	Granted	Method and apparatus for providing high speed data communications in cellulose environment	ATIS.3GPP.43.064V830-2010
IDP0023486	Indonesia	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.43.064V830-2010
155778	Israel	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.43.064V830-2010
10-0708248	Republic of Korea	Granted	Base station, subscriber station, and method for providing high speed data communication in a cellular environment	ATIS.3GPP.43.064V830-2010

155777	Israel	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.43.064V830-2010
EP1633154	Germany	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.43.064V830-2010
EP1223780	Germany	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.43.064V830-2010
EP1633154	European Patent Convention	Granted	Method and apparatus for providing high speed data communication in a cellular environment	ATIS.3GPP.43.064V830-2010
HK1087879	Hong Kong	Granted	Method and apparatus for providing high speed data communication in a cellular environment	ATIS.3GPP.43.064V830-2010
07018304.1	European Patent Convention	Pending	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.43.064V830-2010
10013234.9	European Patent Convention	Pending	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.43.064V830-2010
97912991.3	European Patent Convention	Pending	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.43.064V830-2010
EP1223780	European Patent Convention	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.43.064V830-2010
EP1633154	Spain	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.43.064V830-2010
EP1223780	Spain	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.43.064V830-2010
EP1633154	Finland	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.43.064V830-2010
EP1223780	Finland	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.43.064V830-2010
EP1633154	France	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.43.064V830-2010
EP1223780	France	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.43.064V830-2010
EP1633154	Great Britain	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.43.064V830-2010
EP1223780	Great Britain	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.43.064V830-2010
HK1076203	Hong Kong	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.43.064V830-2010
ID0010355	Indonesia	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.43.064V830-2010
EP1633154	Ireland	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.43.064V830-2010
EP1223780	Ireland	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.43.064V830-2010
208016	India	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.43.064V830-2010

129306	Israel	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.43.064V830-2010
EP1633154	Italy	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.43.064V830-2010
EP1223780	Italy	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.43.064V830-2010
4130476	Japan	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.43.064V830-2010
4673356	Japan	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.43.064V830-2010
4950330	Japan	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.43.064V830-2010
5048864	Japan	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.43.064V830-2010
10-0507425	Republic of Korea	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.43.064V830-2010
228363	Mexico	Granted	QAM System in Which the Constellation is Modified in Accordance with Channel Quality	ATIS.3GPP.43.064V830-2010
EP1633154	Netherlands	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.43.064V830-2010
EP1223780	Netherlands	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.43.064V830-2010
318282	Norway	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.43.064V830-2010
335018	New Zealand	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.43.064V830-2010
ZL97199169.3	China P.R.	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.43.064V830-2010
121459	Taiwan	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.43.064V830-2010
2193291	Russian Federation	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.43.064V830-2010
EP1223780	Sweden	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.43.064V830-2010
64724	Singapore	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.43.064V830-2010
57041	Ukraine	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.43.064V830-2010
2849	Vietnam	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.43.064V830-2010
6,496,543	United States	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.45.003V830-2010
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PI9715349-4	Brazil	Pending	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.45.003V830-2010
PI9715351-6	Brazil	Pending	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.45.003V830-2010
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2269223	Canada	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.003V830-2010
CL47.802	Chile	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.45.003V830-2010
ZL200410011924.8	China P.R.	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.45.003V830-2010
ZL02105508.4	China P.R.	Granted	Method and apparatus for providing high speed data communications in cellulose environment	ATIS.3GPP.45.003V830-2010
IDP0023486	Indonesia	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.45.003V830-2010
155778	Israel	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.45.003V830-2010
10-0708248	Republic of Korea	Granted	Base station, subscriber station, and method for providing high speed data communication in a cellular environment	ATIS.3GPP.45.003V830-2010
155777	Israel	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.45.003V830-2010
EP1633154	Germany	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.003V830-2010
EP1223780	Germany	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.45.003V830-2010
EP1633154	European Patent Convention	Granted	Method and apparatus for providing high speed data communication in a cellular environment	ATIS.3GPP.45.003V830-2010
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97912991.3	European Patent Convention	Pending	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.003V830-2010
EP1223780	European Patent Convention	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.45.003V830-2010
EP1633154	Spain	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.003V830-2010
EP1223780	Spain	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.45.003V830-2010
EP1633154	Finland	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.003V830-2010
EP1223780	Finland	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.45.003V830-2010
EP1633154	France	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.003V830-2010
EP1223780	France	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.45.003V830-2010
EP1633154	Great Britain	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.003V830-2010
EP1223780	Great Britain	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.45.003V830-2010
HK1076203	Hong Kong	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.45.003V830-2010
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EP1633154	Ireland	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.003V830-2010
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129306	Israel	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.003V830-2010
EP1633154	Italy	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.003V830-2010
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EP1223780	Netherlands	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.45.003V830-2010
318282	Norway	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.003V830-2010
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ZL97199169.3	China P.R.	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.003V830-2010
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2849	Vietnam	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.003V830-2010
6,496,543	United States	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.45.008V8160-2014
722340	Australia	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
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PI9715350-8	Brazil	Pending	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.45.008V8160-2014
PI9715349-4	Brazil	Pending	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.45.008V8160-2014
PI9715351-6	Brazil	Pending	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.45.008V8160-2014
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ZL02105508.4	China P.R.	Granted	Method and apparatus for providing high speed data communications in cellulose environment	ATIS.3GPP.45.008V8160-2014
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HK1087879	Hong Kong	Granted	Method and apparatus for providing high speed data communication in a cellular environment	ATIS.3GPP.45.008V8160-2014
07018304.1	European Patent Convention	Pending	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
10013234.9	European Patent Convention	Pending	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
97912991.3	European Patent Convention	Pending	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
EP1223780	European Patent Convention	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
EP1633154	Spain	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
EP1223780	Spain	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
EP1633154	Finland	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
EP1223780	Finland	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
EP1633154	France	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.008V8160-2014

EP1223780	France	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
EP1633154	Great Britain	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
EP1223780	Great Britain	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
HK1076203	Hong Kong	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.45.008V8160-2014
ID0010355	Indonesia	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
EP1633154	Ireland	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
EP1223780	Ireland	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
208016	India	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.45.008V8160-2014
129306	Israel	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
EP1633154	Italy	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
EP1223780	Italy	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
4130476	Japan	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.45.008V8160-2014
4673356	Japan	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.45.008V8160-2014
4950330	Japan	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.45.008V8160-2014
5048864	Japan	Granted	Method and apparatus for providing high speed data communications in a cellular environment	ATIS.3GPP.45.008V8160-2014
10-0507425	Republic of Korea	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
228363	Mexico	Granted	QAM System in Which the Constellation is Modified in Accordance with Channel Quality	ATIS.3GPP.45.008V8160-2014
EP1633154	Netherlands	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
EP1223780	Netherlands	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
318282	Norway	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
335018	New Zealand	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
ZL97199169.3	China P.R.	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.008V8160-2014

121459	Taiwan	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
2193291	Russian Federation	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
EP1223780	Sweden	Granted	Method and Apparatus for Providing High Speed Data Communication in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
64724	Singapore	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
57041	Ukraine	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
2849	Vietnam	Granted	Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	ATIS.3GPP.45.008V8160-2014
6,173,007	United States	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
6,501,787	United States	Granted	High-Data-Rate Supplemental Channel for CDMA Telecommunications System	ATIS.3GPP.25.221V8110-2014
6,842,477	United States	Granted	High-Data-Rate Supplemental Channel for CDMA Telecommunications System	ATIS.3GPP.25.221V8110-2014
EP2288062	Austria	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2106033	Austria	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2288062	Belgium	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2106033	Belgium	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2288062	Switzerland	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2106033	Switzerland	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
CL48.388	Chile	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
6,574,210	United States	Granted	High-Data-Rate Supplemental Channel for CDMA Telecommunications System	ATIS.3GPP.25.221V8110-2014
EP0956672	Germany	Granted	High-Data-Rate Supplemental Channel for CDMA Telecommunications System	ATIS.3GPP.25.221V8110-2014
EP1802004	Germany	Granted	Transmission of a plurality of channels for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2288062	Germany	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2106033	Germany	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
5,949,814	United States	Granted	High-Data-Rate Supplemental Channel for CDMA Telecommunications System	ATIS.3GPP.25.221V8110-2014
6,298,051	United States	Granted	High-Data-Rate Supplemental Channel for CDMA Telecommunications System	ATIS.3GPP.25.221V8110-2014
EP2288062	Denmark	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2106033	Denmark	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2288062	European Patent Convention	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
HK1154716	Hong Kong	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2106033	European Patent Convention	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
HK1135245	Hong Kong	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP0956672	European Patent Convention	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1802004	European Patent Convention	Granted	Transmission of a plurality of channels for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP0956672	Spain	Granted	High-Data-Rate Supplemental Channel for CDMA Telecommunications System	ATIS.3GPP.25.221V8110-2014
EP1802004	Spain	Granted	Transmission of a plurality of channels for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2288062	Spain	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2106033	Spain	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014

EP0956672	Finland	Granted	High-Data-Rate Supplemental Channel for CDMA Telecommunications System	ATIS.3GPP.25.221V8110-2014
EP2288062	Finland	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2106033	Finland	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP0956672	France	Granted	High-Data-Rate Supplemental Channel for CDMA Telecommunications System	ATIS.3GPP.25.221V8110-2014
EP1802004	France	Granted	Transmission of a plurality of channels for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2288062	France	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2106033	France	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP0956672	Great Britain	Granted	High-Data-Rate Supplemental Channel for CDMA Telecommunications System	ATIS.3GPP.25.221V8110-2014
EP1802004	Great Britain	Granted	Transmission of a plurality of channels for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2288062	Great Britain	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2106033	Great Britain	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2288062	Greece	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2106033	Greece	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
HK1023667	Hong Kong	Granted	High-Data-Rate Supplemental Channel for CDMA Telecommunications System	ATIS.3GPP.25.221V8110-2014
HK1108980	Hong Kong	Granted	High-Data-Rate Supplemental Channel for CDMA Telecommunications System	ATIS.3GPP.25.221V8110-2014
EP0956672	Ireland	Granted	High-Data-Rate Supplemental Channel for CDMA Telecommunications System	ATIS.3GPP.25.221V8110-2014
EP2288062	Ireland	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2106033	Ireland	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
130747	Israel	Granted	High-Data-Rate Supplemental Channel for CDMA Telecommunications System	ATIS.3GPP.25.221V8110-2014
EP0956672	Italy	Granted	High-Data-Rate Supplemental Channel for CDMA Telecommunications System	ATIS.3GPP.25.221V8110-2014
EP1802004	Italy	Granted	Transmission of a plurality of channels for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2288062	Italy	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2106033	Italy	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
4541453	Japan	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
5144707	Japan	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
10-0567180	Republic of Korea	Granted	High-Data-Rate Supplemental Channel for CDMA Telecommunications System	ATIS.3GPP.25.221V8110-2014
214412	Mexico	Granted	High-Data-Rate Supplemental Channel for CDMA Telecommunications System	ATIS.3GPP.25.221V8110-2014
EP0956672	Netherlands	Granted	High-Data-Rate Supplemental Channel for CDMA Telecommunications System	ATIS.3GPP.25.221V8110-2014
EP2288062	Netherlands	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2106033	Netherlands	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
ZL97181366.3	China P.R.	Granted	High-Data-Rate Supplemental Channel for CDMA Telecommunications System	ATIS.3GPP.25.221V8110-2014
EP2288062	Portugal	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2106033	Portugal	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
113653	Taiwan	Granted	High-Data-Rate Supplemental Channel for CDMA Telecommunications System	ATIS.3GPP.25.221V8110-2014
98/0079	South Africa	Granted	High-Data-Rate Supplemental Channel for CDMA Telecommunications System	ATIS.3GPP.25.221V8110-2014
EP0956672	Sweden	Granted	High-Data-Rate Supplemental Channel for CDMA Telecommunications System	ATIS.3GPP.25.221V8110-2014
EP2288062	Sweden	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2106033	Sweden	Granted	High-data-rate supplemental channel for CDMA telecommunications system	ATIS.3GPP.25.221V8110-2014
TR199901657	Turkey	Granted	High-Data-Rate Supplemental Channel for CDMA Telecommunications System	ATIS.3GPP.25.221V8110-2014

5,940,761	United States	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
001724	Armenia	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
742513	Australia	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
001724	Azerbaijan	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
PI9714321-9	Brazil	Pending	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
001724	Belarus	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
6,304,755	United States	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
6,810,254	United States	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
2277772	Canada	Granted	Method and apparatus for performing mobile assisted hard handoff between communication systems	ATIS.3GPP.25.331V8250-2016
156764	Israel	Granted	Method and apparatus for performing mobile assisted hard handoff between communication systems	ATIS.3GPP.25.331V8250-2016
EP0956679	Germany	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
001724	Eurasian Patent Convention	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
EP0956679	European Patent Convention	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
EP0956679	Spain	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
EP0956679	Finland	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
EP0956679	France	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
EP0956679	Great Britain	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
HK1023894	Hong Kong	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
W-990694	Indonesia	Pending	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
EP0956679	Ireland	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
198051	Israel	Granted	Method and apparatus for performing mobile assisted hard handoff between communication systems	ATIS.3GPP.25.331V8250-2016
211846	India	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016

130734	Israel	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
EP0956679	Italy	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
4234209	Japan	Granted	Method and apparatus for performing mobile assisted hard handoff between communication sSystems	ATIS.3GPP.25.331V8250-2016
001724	Kyrgyzstan	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
10-0560982	Republic of Korea	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
001724	Kazakhstan	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
001724	Moldova	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
207502	Mexico	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
EP0956679	Netherlands	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
ZL97181396.5	China P.R.	Granted	Method and apparatus for performing mobile assisted hard handoff between communication systems	ATIS.3GPP.25.331V8250-2016
ZL200910160529.9	China P.R.	Granted	Method and apparatus for performing mobile assisted hard handoff between communication systems	ATIS.3GPP.25.331V8250-2016
104937	Taiwan	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
001724	Russian Federation	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
98/0082	South Africa	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
EP0956679	Sweden	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
66513	Singapore	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
001724	Tajikistan	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
001724	Turkmenistan	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
UA45478	Ukraine	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
5,999,816	United States	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
EP0962115	Austria	Granted	Method of and Apparatus for Avoiding Lost Communication with a Mobile Station	ATIS.3GPP.25.331V8250-2016
EP0962115	Switzerland	Granted	Method of and Apparatus for Avoiding Lost Communication with a Mobile Station	ATIS.3GPP.25.331V8250-2016

41914	Chile	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
EP0962115	Germany	Granted	Method of and Apparatus for Avoiding Lost Communication with a Mobile Station	ATIS.3GPP.25.331V8250-2016
EP1633166	Germany	Granted	Method and apparatus for controlling a mobile station at a failed handover attempt	ATIS.3GPP.25.331V8250-2016
EP1874076	Germany	Granted	Method of and apparatus for avoiding lost communication with a mobile station	ATIS.3GPP.25.331V8250-2016
EP2229026	Germany	Granted	Method of and apparatus for avoiding lost communication with a mobile station	ATIS.3GPP.25.331V8250-2016
EP2229026	European Patent Convention	Granted	Method of and apparatus for avoiding lost communication with a mobile station	ATIS.3GPP.25.331V8250-2016
EP0962115	European Patent Convention	Granted	Method of and Apparatus for Avoiding Lost Communication with a Mobile Station	ATIS.3GPP.25.331V8250-2016
EP1633166	European Patent Convention	Granted	Method and apparatus for controlling a mobile station at a failed handover attempt	ATIS.3GPP.25.331V8250-2016
EP1874076	European Patent Convention	Granted	Method of and apparatus for avoiding lost communication with a mobile station	ATIS.3GPP.25.331V8250-2016
EP0962115	Spain	Granted	Method of and Apparatus for Avoiding Lost Communication with a Mobile Station	ATIS.3GPP.25.331V8250-2016
EP1633166	Spain	Granted	Method and apparatus for controlling a mobile station at a failed handover attempt	ATIS.3GPP.25.331V8250-2016
EP2229026	Spain	Granted	Method of and apparatus for avoiding lost communication with a mobile station	ATIS.3GPP.25.331V8250-2016
EP0962115	Finland	Granted	Method of and Apparatus for Avoiding Lost Communication with a Mobile Station	ATIS.3GPP.25.331V8250-2016
EP1633166	Finland	Granted	Method and apparatus for controlling a mobile station at a failed handover attempt	ATIS.3GPP.25.331V8250-2016
EP1633166	France	Granted	Method and apparatus for controlling a mobile station at a failed handover attempt	ATIS.3GPP.25.331V8250-2016
EP2229026	France	Granted	Method of and apparatus for avoiding lost communication with a mobile station	ATIS.3GPP.25.331V8250-2016
EP0962115	Great Britain	Granted	Method of and Apparatus for Avoiding Lost Communication with a Mobile Station	ATIS.3GPP.25.331V8250-2016
EP1633166	Great Britain	Granted	Method and apparatus for controlling a mobile station at a failed handover attempt	ATIS.3GPP.25.331V8250-2016
EP1874076	Great Britain	Granted	Method of and apparatus for avoiding lost communication with a mobile station	ATIS.3GPP.25.331V8250-2016
EP2229026	Great Britain	Granted	Method of and apparatus for avoiding lost communication with a mobile station	ATIS.3GPP.25.331V8250-2016
HK1025004	Hong Kong	Granted	Method of and Apparatus for Avoiding Lost Communication with a Mobile Station	ATIS.3GPP.25.331V8250-2016
EP0962115	Ireland	Granted	Method of and Apparatus for Avoiding Lost Communication with a Mobile Station	ATIS.3GPP.25.331V8250-2016

EP1633166	Ireland	Granted	Method and apparatus for controlling a mobile station at a failed handover attempt	ATIS.3GPP.25.331V8250-2016
216629	India	Granted	A method for avoiding lost communication with a mobile station	ATIS.3GPP.25.331V8250-2016
EP1633166	Italy	Granted	Method and apparatus for controlling a mobile station at a failed handover attempt	ATIS.3GPP.25.331V8250-2016
EP2229026	Italy	Granted	Method of and apparatus for avoiding lost communication with a mobile station	ATIS.3GPP.25.331V8250-2016
4108759	Japan	Granted	Method of and apparatus for avoiding lost communication with a mobile station	ATIS.3GPP.25.331V8250-2016
4309444	Japan	Granted	Method of and apparatus for avoiding lost communication with a mobile station	ATIS.3GPP.25.331V8250-2016
4351293	Japan	Granted	Method of and apparatus for avoiding lost communication with a mobile station	ATIS.3GPP.25.331V8250-2016
10-0530729	Republic of Korea	Granted	Method of and Apparatus for Avoiding Lost Communication with a Mobile Station	ATIS.3GPP.25.331V8250-2016
EP1633166	Netherlands	Granted	Method and apparatus for controlling a mobile station at a failed handover attempt	ATIS.3GPP.25.331V8250-2016
EP2229026	Netherlands	Granted	Method of and apparatus for avoiding lost communication with a mobile station	ATIS.3GPP.25.331V8250-2016
ZL98802596.5	China P.R.	Granted	Method of and Apparatus for Avoiding Lost Communication with a Mobile Station	ATIS.3GPP.25.331V8250-2016
126740	Taiwan	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
98/1291	South Africa	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.25.331V8250-2016
EP0962115	Sweden	Granted	Method of and Apparatus for Avoiding Lost Communication with a Mobile Station	ATIS.3GPP.25.331V8250-2016
EP1633166	Sweden	Granted	Method and apparatus for controlling a mobile station at a failed handover attempt	ATIS.3GPP.25.331V8250-2016
6,396,867	United States	Granted	Method and apparatus for forward link power control	ATIS.3GPP.25.221V8110-2014
EP0978170	Austria	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
753672	Australia	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
EP0978170	Belgium	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
EP1717966	Belgium	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.221V8110-2014
PI9808986-2	Brazil	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
6,757,320	United States	Granted	Method and Apparatus for Forward Link Power Control	ATIS.3GPP.25.221V8110-2014
7,680,174	United States	Granted	Method and apparatus for forward link power control	ATIS.3GPP.25.221V8110-2014
7,809,044	United States	Granted	Method and apparatus for forward link power control	ATIS.3GPP.25.221V8110-2014

2286842	Canada	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
EP0978170	Switzerland	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
EP0978170	Germany	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
EP1717966	Germany	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.221V8110-2014
EP0978170	Denmark	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
EP0978170	European Patent Convention	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
EP1717966	European Patent Convention	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.221V8110-2014
EP0978170	Spain	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
EP1717966	Spain	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.221V8110-2014
EP0978170	Finland	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
EP1717966	Finland	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.221V8110-2014
EP0978170	France	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
EP1717966	France	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.221V8110-2014
EP0978170	Great Britain	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
EP1717966	Great Britain	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.221V8110-2014
HK1025850	Hong Kong	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
ID0011872	Indonesia	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
EP0978170	Ireland	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
EP1717966	Ireland	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.221V8110-2014
132415	Israel	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
EP0978170	Italy	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
EP1717966	Italy	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.221V8110-2014

4169793	Japan	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.221V8110-2014
4440981	Japan	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.221V8110-2014
4995949	Japan	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.221V8110-2014
10-0576594	Republic of Korea	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
EP0978170	Liechtenstein	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
279203	Mexico	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.221V8110-2014
EP0978170	Netherlands	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
EP1717966	Netherlands	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.221V8110-2014
323939	Norway	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
326943	Norway	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.221V8110-2014
ZL98804467.6	China P.R.	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
EP0978170	Portugal	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
116649	Taiwan	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
2221340	Russian Federation	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
98/3400	South Africa	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
EP0978170	Sweden	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
EP1717966	Sweden	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.221V8110-2014
68301	Singapore	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
61946	Ukraine	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.221V8110-2014
6,396,867	United States	Granted	Method and apparatus for forward link power control	ATIS.3GPP.25.224V890-2012
EP0978170	Austria	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.224V890-2012
753672	Australia	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.224V890-2012

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EP1717966	Belgium	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.224V890-2012
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EP0978170	Switzerland	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.224V890-2012
EP0978170	Germany	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.224V890-2012
EP1717966	Germany	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.224V890-2012
EP0978170	Denmark	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.224V890-2012
EP0978170	European Patent Convention	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.224V890-2012
EP1717966	European Patent Convention	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.224V890-2012
EP0978170	Spain	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.224V890-2012
EP1717966	Spain	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.224V890-2012
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EP1717966	Finland	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.224V890-2012
EP0978170	France	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.224V890-2012
EP1717966	France	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.224V890-2012
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4440981	Japan	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.224V890-2012
4995949	Japan	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.224V890-2012
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EP1717966	Netherlands	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.224V890-2012
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ZL98804467.6	China P.R.	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.224V890-2012
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2221340	Russian Federation	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.224V890-2012
98/3400	South Africa	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.224V890-2012
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EP1717966	Sweden	Granted	Method of and apparatus for controlling transmission power in a communication system	ATIS.3GPP.25.224V890-2012

68301	Singapore	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.224V890-2012
61946	Ukraine	Granted	Method of and Apparatus for Controlling Transmission Power in a Communication System	ATIS.3GPP.25.224V890-2012
6,111,865	United States	Granted	Dual Channel Slotted Paging	ATIS.3GPP.25.221V8110-2014
6,111,865	United States	Granted	Dual Channel Slotted Paging	ATIS.3GPP.25.222V890-2012
6,832,094	United States	Granted	Dual Event Slotted Paging	ATIS.3GPP.25.221V8110-2014
8,224,356	United States	Granted	Dual event slotted paging	ATIS.3GPP.25.221V8110-2014
8,046,005	United States	Granted	Dual event slotted paging	ATIS.3GPP.25.221V8110-2014
7,983,695	United States	Granted	Dual event slotted paging	ATIS.3GPP.25.221V8110-2014
7,970,420	United States	Granted	Dual event slotted paging	ATIS.3GPP.25.221V8110-2014
7,555,302	United States	Granted	Dual event slotted paging	ATIS.3GPP.25.221V8110-2014
8,068,859	United States	Granted	Dual event slotted paging	ATIS.3GPP.25.221V8110-2014
6,393,295	United States	Granted	Dual event slotted paging	ATIS.3GPP.25.221V8110-2014
AR044968	Argentina	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
AR015842	Argentina	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
EP0985325	Austria	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.221V8110-2014
EP1811803	Austria	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2101537	Austria	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.221V8110-2014
EP2352349	Austria	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.221V8110-2014
EP2134131	Austria	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.221V8110-2014
759956	Australia	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
EP0985325	Belgium	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.221V8110-2014
EP1471761	Belgium	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1811802	Belgium	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1811803	Belgium	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1806946	Belgium	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2101537	Belgium	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.221V8110-2014

EP2352349	Belgium	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.221V8110-2014
EP2134131	Belgium	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.221V8110-2014
PI9816178-4	Brazil	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
PI9809888-8	Brazil	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
PI9816362-0	Brazil	Granted	Dual Channel Slotted Paging	ATIS.3GPP.25.221V8110-2014
2669182	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
2291744	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP0985325	Switzerland	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.221V8110-2014
EP1811803	Switzerland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2101537	Switzerland	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.221V8110-2014
EP2352349	Switzerland	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.221V8110-2014
EP2134131	Switzerland	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.221V8110-2014
CL42580	Chile	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
1715-2004	Chile	Pending	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
ZL200410047451.7	China P.R.	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
ZL200610100385.4	China P.R.	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP0985325	Cyprus	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.221V8110-2014
EP1811803	Cyprus	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
PV2004-736	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
PV20007-577	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
PV2007-578	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
PV2007-579	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
PV2007-580	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014

298748	Czech Republic	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
2474682	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
2316144	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
2689956	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
2689959	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP0985325	Germany	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.221V8110-2014
EP1471761	Germany	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1811802	Germany	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
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EP1806946	Germany	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2101537	Germany	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.221V8110-2014
EP2352349	Germany	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.221V8110-2014
EP2134131	Germany	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.221V8110-2014
EP0985325	Denmark	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.221V8110-2014
EP1811803	Denmark	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2101537	Denmark	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.221V8110-2014
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EP2134131	Denmark	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.221V8110-2014
EP1471761	European Patent Convention	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1811802	European Patent Convention	Granted	Repeated single bit paging indicator via PICH channels in WCDMA wireless Terminals	ATIS.3GPP.25.221V8110-2014
EP1811803	European Patent Convention	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1806946	European Patent Convention	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014

EP2101537	European Patent Convention	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.221V8110-2014
EP2352349	European Patent Convention	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.221V8110-2014
HK1161022	Hong Kong	Granted	Two stage paging in wireless terminals via a paging indicator in a first channel	ATIS.3GPP.25.221V8110-2014
HK1136734	Hong Kong	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.221V8110-2014
EP2134131	European Patent Convention	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.221V8110-2014
HK1139545	Hong Kong	Granted	Maximisation of standby time of CDMA wireless terminals by two stage paging with a paging indication via pich or quick paging channel (QPCH)	ATIS.3GPP.25.221V8110-2014
EP0985325	European Patent Convention	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.221V8110-2014
EP0985325	Spain	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.221V8110-2014
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EP1806946	Spain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2101537	Spain	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.221V8110-2014
EP2352349	Spain	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.221V8110-2014
EP2134131	Spain	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.221V8110-2014
EP0985325	Finland	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.221V8110-2014
121838	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
EP1471761	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
121837	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
121841	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
121840	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
121839	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014

121842	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1811802	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1811803	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1806946	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2101537	Finland	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.221V8110-2014
EP2352349	Finland	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.221V8110-2014
EP2134131	Finland	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.221V8110-2014
121448	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
FI124547	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP0985325	France	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.221V8110-2014
EP1471761	France	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1811802	France	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1811803	France	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1806946	France	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2101537	France	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.221V8110-2014
EP2352349	France	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.221V8110-2014
EP2134131	France	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.221V8110-2014
EP0985325	Great Britain	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.221V8110-2014
EP1471761	Great Britain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1811802	Great Britain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1811803	Great Britain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1806946	Great Britain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014

EP2101537	Great Britain	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.221V8110-2014
EP2352349	Great Britain	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.221V8110-2014
EP2134131	Great Britain	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.221V8110-2014
EP0985325	Greece	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.221V8110-2014
EP1811803	Greece	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2101537	Greece	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.221V8110-2014
EP2352349	Greece	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.221V8110-2014
EP2134131	Greece	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.221V8110-2014
HK1030325	Hong Kong	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
HK1071349	Hong Kong	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
229359	Hungary	Granted	Paging a wireless terminal in a telecommunications system	ATIS.3GPP.25.221V8110-2014
229692	Hungary	Granted	Method and Device of Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
228602	Hungary	Granted	Method and Device of Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
W-00200800801	Indonesia	Pending	Dual event slotted paging	ATIS.3GPP.25.221V8110-2014
ID0020949	Indonesia	Granted	Dual channel slotted paging	ATIS.3GPP.25.221V8110-2014
EP0985325	Ireland	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.221V8110-2014
EP1471761	Ireland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1811802	Ireland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1811803	Ireland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1806946	Ireland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2101537	Ireland	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.221V8110-2014
EP2352349	Ireland	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.221V8110-2014
EP2134131	Ireland	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.221V8110-2014

162092	Israel	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
163756	Israel	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
212416	India	Granted	A method for paging a wireless terminal	ATIS.3GPP.25.221V8110-2014
133157	Israel	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP0985325	Italy	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.221V8110-2014
EP1471761	Italy	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1811802	Italy	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1811803	Italy	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1806946	Italy	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2101537	Italy	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.221V8110-2014
EP2352349	Italy	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.221V8110-2014
EP2134131	Italy	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.221V8110-2014
3983818	Japan	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
4249091	Japan	Granted	Apparatus and method for paging wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
4286315	Japan	Granted	Dual channel slotted paging	ATIS.3GPP.25.221V8110-2014
4286316	Japan	Granted	Dual channel slotted paging	ATIS.3GPP.25.221V8110-2014
4286317	Japan	Granted	Dual channel slotted paging	ATIS.3GPP.25.221V8110-2014
4166807	Japan	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
10-0587249	Republic of Korea	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
EP0985325	Liechtenstein	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.221V8110-2014
EP1811803	Liechtenstein	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP0985325	Luxembourg	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.221V8110-2014
EP1811803	Luxembourg	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
MY-124180-A	Malaysia	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014

EP0985325	Monaco	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.221V8110-2014
EP1811803	Monaco	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
213725	Mexico	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
250047	Mexico	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
275778	Mexico	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
281016	Mexico	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
275777	Mexico	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
275781	Mexico	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
275780	Mexico	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
306635	Mexico	Granted	A method of an apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
MY-135824-A	Malaysia	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
MY-138497-A	Malaysia	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
MY-143086-A	Malaysia	Granted	Method and apparatus for indirect paging a wireless terminal with less encoded paging indication channel	ATIS.3GPP.25.221V8110-2014
MY-148747-A	Malaysia	Granted	Repeated single bit paging indicator via PICH channels in WCDMA wireless terminals	ATIS.3GPP.25.221V8110-2014
EP0985325	Netherlands	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.221V8110-2014
EP1471761	Netherlands	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1811802	Netherlands	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1811803	Netherlands	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1806946	Netherlands	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2101537	Netherlands	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.221V8110-2014
EP2352349	Netherlands	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.221V8110-2014
EP2134131	Netherlands	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.221V8110-2014

501335	New Zealand	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
206000	Poland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
P-381236	Poland	Pending	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
212120	Poland	Granted	A method for reducing standby mode power consumption when paging a wireless terminal	ATIS.3GPP.25.221V8110-2014
212122	Poland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
212121	Poland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
ZL98806860.5	China P.R.	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
EP0985325	Portugal	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.221V8110-2014
EP1811803	Portugal	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2101537	Portugal	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.221V8110-2014
EP2352349	Portugal	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.221V8110-2014
EP2134131	Portugal	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.221V8110-2014
158084	Taiwan	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
2328831	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
2444859	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
2444860	Russian Federation	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
2460237	Russian Federation	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
2460236	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
2460238	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
2212771	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
98/4659	South Africa	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
EP0985325	Sweden	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.221V8110-2014

EP1471761	Sweden	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1811802	Sweden	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1811803	Sweden	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP1806946	Sweden	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
EP2101537	Sweden	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.221V8110-2014
EP2352349	Sweden	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.221V8110-2014
EP2134131	Sweden	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.221V8110-2014
69553	Singapore	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.221V8110-2014
85534	Ukraine	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.221V8110-2014
72442	Ukraine	Granted	Method and Device for Paging Call of a Terminal in a Radio Communications System	ATIS.3GPP.25.221V8110-2014
6,832,094	United States	Granted	Dual Event Slotted Paging	ATIS.3GPP.25.222V890-2012
8,224,356	United States	Granted	Dual event slotted paging	ATIS.3GPP.25.222V890-2012
8,046,005	United States	Granted	Dual event slotted paging	ATIS.3GPP.25.222V890-2012
7,983,695	United States	Granted	Dual event slotted paging	ATIS.3GPP.25.222V890-2012
7,970,420	United States	Granted	Dual event slotted paging	ATIS.3GPP.25.222V890-2012
7,555,302	United States	Granted	Dual event slotted paging	ATIS.3GPP.25.222V890-2012
8,068,859	United States	Granted	Dual event slotted paging	ATIS.3GPP.25.222V890-2012
6,393,295	United States	Granted	Dual event slotted paging	ATIS.3GPP.25.222V890-2012
AR044968	Argentina	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
AR015842	Argentina	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
EP0985325	Austria	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.222V890-2012
EP1811803	Austria	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP2101537	Austria	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.222V890-2012
EP2352349	Austria	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.222V890-2012
EP2134131	Austria	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.222V890-2012

759956	Australia	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
EP0985325	Belgium	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.222V890-2012
EP1471761	Belgium	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1811802	Belgium	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1811803	Belgium	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1806946	Belgium	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP2101537	Belgium	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.222V890-2012
EP2352349	Belgium	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.222V890-2012
EP2134131	Belgium	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.222V890-2012
PI9816178-4	Brazil	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
PI9809888-8	Brazil	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
PI9816362-0	Brazil	Granted	Dual Channel Slotted Paging	ATIS.3GPP.25.222V890-2012
2669182	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
2291744	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP0985325	Switzerland	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.222V890-2012
EP1811803	Switzerland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP2101537	Switzerland	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.222V890-2012
EP2352349	Switzerland	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.222V890-2012
EP2134131	Switzerland	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.222V890-2012
CL42580	Chile	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
1715-2004	Chile	Pending	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
ZL200410047451.7	China P.R.	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012

ZL200610100385.4	China P.R.	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP0985325	Cyprus	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.222V890-2012
EP1811803	Cyprus	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
PV2004-736	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
PV20007-577	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
PV2007-578	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
PV2007-579	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
PV2007-580	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
298748	Czech Republic	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
2474682	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
2316144	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
2689956	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
2689959	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP0985325	Germany	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.222V890-2012
EP1471761	Germany	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1811802	Germany	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1811803	Germany	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1806946	Germany	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP2101537	Germany	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.222V890-2012
EP2352349	Germany	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.222V890-2012
EP2134131	Germany	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.222V890-2012
EP0985325	Denmark	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.222V890-2012

EP1811803	Denmark	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP2101537	Denmark	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.222V890-2012
EP2352349	Denmark	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.222V890-2012
EP2134131	Denmark	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.222V890-2012
EP1471761	European Patent Convention	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1811802	European Patent Convention	Granted	Repeated single bit paging indicator via PICH channels in WCDMA wireless Terminals	ATIS.3GPP.25.222V890-2012
EP1811803	European Patent Convention	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1806946	European Patent Convention	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP2101537	European Patent Convention	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.222V890-2012
EP2352349	European Patent Convention	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.222V890-2012
HK1161022	Hong Kong	Granted	Two stage paging in wireless terminals via a paging indicator in a first channel	ATIS.3GPP.25.222V890-2012
HK1136734	Hong Kong	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.222V890-2012
EP2134131	European Patent Convention	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.222V890-2012
HK1139545	Hong Kong	Granted	Maximisation of standby time of CDMA wireless terminals by two stage paging with a paging indication via pich or quick paging channel (QPCH)	ATIS.3GPP.25.222V890-2012
EP0985325	European Patent Convention	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.222V890-2012
EP0985325	Spain	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.222V890-2012
EP1471761	Spain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1811802	Spain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1811803	Spain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1806946	Spain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP2101537	Spain	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.222V890-2012
EP2352349	Spain	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.222V890-2012

EP2134131	Spain	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.222V890-2012
EP0985325	Finland	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.222V890-2012
121838	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
EP1471761	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
121837	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
121841	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
121840	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
121839	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
121842	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1811802	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1811803	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1806946	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP2101537	Finland	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.222V890-2012
EP2352349	Finland	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.222V890-2012
EP2134131	Finland	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.222V890-2012
121448	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
FI124547	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP0985325	France	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.222V890-2012
EP1471761	France	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1811802	France	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1811803	France	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1806946	France	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012

EP2101537	France	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.222V890-2012
EP2352349	France	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.222V890-2012
EP2134131	France	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.222V890-2012
EP0985325	Great Britain	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.222V890-2012
EP1471761	Great Britain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1811802	Great Britain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1811803	Great Britain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1806946	Great Britain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP2101537	Great Britain	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.222V890-2012
EP2352349	Great Britain	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.222V890-2012
EP2134131	Great Britain	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.222V890-2012
EP0985325	Greece	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.222V890-2012
EP1811803	Greece	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP2101537	Greece	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.222V890-2012
EP2352349	Greece	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.222V890-2012
EP2134131	Greece	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.222V890-2012
HK1030325	Hong Kong	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
HK1071349	Hong Kong	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
229359	Hungary	Granted	Paging a wireless terminal in a telecommunications system	ATIS.3GPP.25.222V890-2012
229692	Hungary	Granted	Method and Device of Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
228602	Hungary	Granted	Method and Device of Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
W-00200800801	Indonesia	Pending	Dual event slotted paging	ATIS.3GPP.25.222V890-2012
ID0020949	Indonesia	Granted	Dual channel slotted paging	ATIS.3GPP.25.222V890-2012

EP0985325	Ireland	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.222V890-2012
EP1471761	Ireland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1811802	Ireland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1811803	Ireland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1806946	Ireland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP2101537	Ireland	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.222V890-2012
EP2352349	Ireland	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.222V890-2012
EP2134131	Ireland	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.222V890-2012
162092	Israel	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
163756	Israel	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
212416	India	Granted	A method for paging a wireless terminal	ATIS.3GPP.25.222V890-2012
133157	Israel	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP0985325	Italy	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.222V890-2012
EP1471761	Italy	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1811802	Italy	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1811803	Italy	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1806946	Italy	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP2101537	Italy	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.222V890-2012
EP2352349	Italy	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.222V890-2012
EP2134131	Italy	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.222V890-2012
3983818	Japan	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
4249091	Japan	Granted	Apparatus and method for paging wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
4286315	Japan	Granted	Dual channel slotted paging	ATIS.3GPP.25.222V890-2012

4286316	Japan	Granted	Dual channel slotted paging	ATIS.3GPP.25.222V890-2012
4286317	Japan	Granted	Dual channel slotted paging	ATIS.3GPP.25.222V890-2012
4166807	Japan	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
10-0587249	Republic of Korea	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
EP0985325	Liechtenstein	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.222V890-2012
EP1811803	Liechtenstein	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP0985325	Luxembourg	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.222V890-2012
EP1811803	Luxembourg	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
MY-124180-A	Malaysia	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
EP0985325	Monaco	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.222V890-2012
EP1811803	Monaco	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
213725	Mexico	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
250047	Mexico	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
275778	Mexico	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
281016	Mexico	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
275777	Mexico	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
275781	Mexico	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
275780	Mexico	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
306635	Mexico	Granted	A method of an apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
MY-135824-A	Malaysia	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
MY-138497-A	Malaysia	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
MY-143086-A	Malaysia	Granted	Method and apparatus for indirect paging a wireless terminal with less encoded paging indication channel	ATIS.3GPP.25.222V890-2012
MY-148747-A	Malaysia	Granted	Repeated single bit paging indicator via PICH channels in WCDMA wireless terminals	ATIS.3GPP.25.222V890-2012

EP0985325	Netherlands	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.222V890-2012
EP1471761	Netherlands	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1811802	Netherlands	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1811803	Netherlands	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1806946	Netherlands	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP2101537	Netherlands	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.222V890-2012
EP2352349	Netherlands	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.222V890-2012
EP2134131	Netherlands	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.222V890-2012
501335	New Zealand	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
206000	Poland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
P-381236	Poland	Pending	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
212120	Poland	Granted	A method for reducing standby mode power consumption when paging a wireless terminal	ATIS.3GPP.25.222V890-2012
212122	Poland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
212121	Poland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
ZL98806860.5	China P.R.	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
EP0985325	Portugal	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.222V890-2012
EP1811803	Portugal	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP2101537	Portugal	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.222V890-2012
EP2352349	Portugal	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.222V890-2012
EP2134131	Portugal	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.222V890-2012
158084	Taiwan	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
2328831	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012

2444859	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
2444860	Russian Federation	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
2460237	Russian Federation	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
2460236	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
2460238	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
2212771	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
98/4659	South Africa	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
EP0985325	Sweden	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.25.222V890-2012
EP1471761	Sweden	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1811802	Sweden	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1811803	Sweden	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP1806946	Sweden	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
EP2101537	Sweden	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.25.222V890-2012
EP2352349	Sweden	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.25.222V890-2012
EP2134131	Sweden	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.25.222V890-2012
69553	Singapore	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.25.222V890-2012
85534	Ukraine	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.25.222V890-2012
72442	Ukraine	Granted	Method and Device for Paging Call of a Terminal in a Radio Communications System	ATIS.3GPP.25.222V890-2012
7,068,658	United States	Granted	Method and Apparatus for Resolving Ambiguity in Reception of Multiple Retransmitted Frames	ATIS.3GPP.25.322V890-2012
7,593,408	United States	Granted	Method and apparatus for resolving ambiguity in reception of multiple retransmitted frames	ATIS.3GPP.25.322V890-2012
6,408,003	United States	Granted	Method and Apparatus for Resolving Ambiguity in Reception of Multiple Retransmitted Frames	ATIS.3GPP.25.322V890-2012
6,426,960	United States	Granted	INCREASED CAPACITY DATA TRANSMISSION IN A CDMA WIRELESS COMMUNICATION SYSTEM	ATIS.3GPP.25.321V8170-2014

EP0992123	Germany	Granted	A Method and System for Conducting Wireless Communications	ATIS.3GPP.25.321V8170-2014
EP0992123	European Patent Convention	Granted	A Method and System for Conducting Wireless Communications	ATIS.3GPP.25.321V8170-2014
EP0992123	Spain	Granted	A Method and System for Conducting Wireless Communications	ATIS.3GPP.25.321V8170-2014
EP0992123	Finland	Granted	A Method and System for Conducting Wireless Communications	ATIS.3GPP.25.321V8170-2014
EP0992123	France	Granted	A Method and System for Conducting Wireless Communications	ATIS.3GPP.25.321V8170-2014
EP0992123	Great Britain	Granted	A Method and System for Conducting Wireless Communications	ATIS.3GPP.25.321V8170-2014
HK1028304	Hong Kong	Granted	A Method and System for Conducting Wireless Communications	ATIS.3GPP.25.321V8170-2014
HK1106883	Hong Kong	Granted	An apparatus for conducting wireless communications	ATIS.3GPP.25.321V8170-2014
EP0992123	Ireland	Granted	A Method and System for Conducting Wireless Communications	ATIS.3GPP.25.321V8170-2014
EP0992123	Italy	Granted	A Method and System for Conducting Wireless Communications	ATIS.3GPP.25.321V8170-2014
4053609	Japan	Granted	A Method and System for Conducting Wireless Communications	ATIS.3GPP.25.321V8170-2014
10-0650025	Republic of Korea	Granted	A Method and System for Conducting Wireless Communications	ATIS.3GPP.25.321V8170-2014
10-0650028	Republic of Korea	Granted	A Method and System for Conducting Wireless Communications	ATIS.3GPP.25.321V8170-2014
EP0992123	Netherlands	Granted	A Method and System for Conducting Wireless Communications	ATIS.3GPP.25.321V8170-2014
ZL98806417.0	China P.R.	Granted	A Method and System for Conducting Wireless Communications	ATIS.3GPP.25.321V8170-2014
ZL200710089741.1	China P.R.	Granted	An apparatus for conducting wireless communications	ATIS.3GPP.25.321V8170-2014
6,055,428	United States	Granted	Method and apparatus for performing soft hand-off in a wireless communication system	ATIS.3GPP.25.331V8250-2016
755435	Australia	Granted	A Method of and Apparatus for Selecting Base Stations to Communicate with a Remote Station	ATIS.3GPP.25.331V8250-2016
PI9812268-1	Brazil	Pending	A Method of and Apparatus for Selecting Base Stations to Communicate with a Remote Station	ATIS.3GPP.25.331V8250-2016
2295550	Canada	Granted	A method of and apparatus for selecting base stations to communicate with a remote station	ATIS.3GPP.25.331V8250-2016
CL41.306	Chile	Granted	Method and apparatus for selecting base stations to communicate with a remote station	ATIS.3GPP.25.331V8250-2016
EP1005772	Germany	Granted	A Method of and Apparatus for Selecting Base Stations to Communicate with a Remote Station	ATIS.3GPP.25.331V8250-2016
EP1005772	European Patent Convention	Granted	A Method of and Apparatus for Selecting Base Stations to Communicate with a Remote Station	ATIS.3GPP.25.331V8250-2016
116927	Finland	Granted	A Method of and Apparatus for Selecting Base Stations to Communicate with a Remote Station	ATIS.3GPP.25.331V8250-2016
EP1005772	France	Granted	A Method of and Apparatus for Selecting Base Stations to Communicate with a Remote Station	ATIS.3GPP.25.331V8250-2016
EP1005772	Great Britain	Granted	A Method of and Apparatus for Selecting Base Stations to Communicate with a Remote Station	ATIS.3GPP.25.331V8250-2016
ID0014007	Indonesia	Granted	A Method of and Apparatus for Selecting Base Stations to Communicate with a Remote Station	ATIS.3GPP.25.331V8250-2016
202094	India	Granted	A method for selecting base stations to communicate with a remote station	ATIS.3GPP.25.331V8250-2016
133936	Israel	Granted	A Method of and Apparatus for Selecting Base Stations to Communicate with a Remote Station	ATIS.3GPP.25.331V8250-2016
4242057	Japan	Granted	A method of and apparatus for selecting base stations to communicate with a remote station	ATIS.3GPP.25.331V8250-2016

10-0702432	Republic of Korea	Granted	A Method of and Apparatus for Selecting Base Stations to Communicate with a Mobile Station	ATIS.3GPP.25.331V8250-2016
MY-117137-A	Malaysia	Granted	A Method of and Apparatus for Selecting Base Stations to Communicate with a Remote Station	ATIS.3GPP.25.331V8250-2016
218433	Mexico	Granted	A Method of and Apparatus for Selecting Base Stations to Communicate with a Remote Station	ATIS.3GPP.25.331V8250-2016
318290	Norway	Granted	A Method of and Apparatus for Selecting Base Stations to Communicate with a Remote Station	ATIS.3GPP.25.331V8250-2016
ZL98807323.4	China P.R.	Granted	Method and Apparatus for Performing Soft Hand-Off in a Wireless Communication System	ATIS.3GPP.25.331V8250-2016
130912	Taiwan	Granted	A Method of and Apparatus for Selecting Base Stations to Communicate with a Remote Station	ATIS.3GPP.25.331V8250-2016
2219661	Russian Federation	Granted	A Method of and Apparatus for Selecting Base Stations to Communicate with a Remote Station	ATIS.3GPP.25.331V8250-2016
98/6450	South Africa	Granted	A Method of and Apparatus for Selecting Base Stations to Communicate with a Remote Station	ATIS.3GPP.25.331V8250-2016
69727	Singapore	Granted	A Method of and Apparatus for Selecting Base Stations to Communicate with a Remote Station	ATIS.3GPP.25.331V8250-2016
UA54524	Ukraine	Granted	Method of and Apparatus for Selecting Base Stations to Communicate with a Remote Station	ATIS.3GPP.25.331V8250-2016
6,574,211	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
AR014006	Argentina	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1029419	Austria	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1434448	Austria	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1777899	Austria	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP2094042	Austria	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
750154	Australia	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1029419	Belgium	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1777899	Belgium	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP2094042	Belgium	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777900	Belgium	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777834	Belgium	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
PI9813885-5	Brazil	Pending	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
PI9816246-2	Brazil	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
7,079,550	United States	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
7,184,426	United States	Granted	Method and Apparatus for Burst Pilot for a Time Division Multiplex System	ATIS.3GPP.25.221V8110-2014
8,311,027	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
7,848,284	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
8,077,655	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
8,005,042	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
7,848,283	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
8,009,625	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014

8,351,372	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
9,001,735	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
7,848,285	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
7,499,427	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
7,848,282	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
7,995,531	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
8,189,540	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
8,089,924	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
2306868	Canada	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
2660745	Canada	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1029419	Switzerland	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1434448	Switzerland	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1777899	Switzerland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP2094042	Switzerland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
42513	Chile	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
CL49.111	Chile	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
ZL200410043583.2	China P.R.	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1029419	Cyprus	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
302904	Czech Republic	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
PV2007-786	Czech Republic	Pending	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
PV2009-370	Czech Republic	Pending	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1326471	Austria	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
ZL02106014.2	China P.R.	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
ZL200610100779.X	China P.R.	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
ZL200610100349.8	China P.R.	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
ZL200610100787.4	China P.R.	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
ZL200610100786.X	China P.R.	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1326471	Germany	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1326471	European Patent Convention	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1326471	Spain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1326471	Finland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1326471	France	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1326471	Great Britain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
HK1050450	Hong Kong	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
HK1100475	Hong Kong	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
HK1102660	Hong Kong	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
HK1100476	Hong Kong	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
HK1100477	Hong Kong	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1326471	Italy	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1326471	Netherlands	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014

EP1777898	Finland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777900	Finland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777834	Finland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1029419	France	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1434448	France	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1777899	France	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP2094042	France	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777898	France	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777973	France	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777900	France	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777834	France	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1029419	Great Britain	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1434448	Great Britain	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1777899	Great Britain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP2094042	Great Britain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777898	Great Britain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777973	Great Britain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777900	Great Britain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777834	Great Britain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1029419	Greece	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1777899	Greece	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP2094042	Greece	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
HK1033063	Hong Kong	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
HK1068743	Hong Kong	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
HK1111012	Hong Kong	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
HK1111006	Hong Kong	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
228540	Hungary	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
P0800018	Hungary	Pending	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
ID0015006	Indonesia	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1029419	Ireland	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1434448	Ireland	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1777899	Ireland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP2094042	Ireland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777898	Ireland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777973	Ireland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777900	Ireland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777834	Ireland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
166221	Israel	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
201875	India	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
135798	Israel	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014

EP1029419	Italy	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1434448	Italy	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1777899	Italy	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP2094042	Italy	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777898	Italy	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777973	Italy	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777900	Italy	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777834	Italy	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
4339508	Japan	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
4955783	Japan	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
4382868	Japan	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
4594442	Japan	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
4594443	Japan	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
5384691	Japan	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
5864476	Japan	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
10-0636923	Republic of Korea	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
10-0636924	Republic of Korea	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1029419	Luxembourg	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
MY-123975-A	Malaysia	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1029419	Monaco	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
221264	Mexico	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1029419	Netherlands	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1434448	Netherlands	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1777899	Netherlands	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP2094042	Netherlands	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777898	Netherlands	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777973	Netherlands	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777900	Netherlands	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777834	Netherlands	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
333651	Norway	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
20075441	Norway	Pending	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
503841	New Zealand	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
PL195276	Poland	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
WO99/23844	Portugal	Pending	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
103941	Portugal	Pending	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
ZL98810951.4	China P.R.	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1029419	Portugal	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1434448	Portugal	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1777899	Portugal	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP2094042	Portugal	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014

121884	Romania	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
123632	Romania	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
2233045	Russian Federation	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
1998/10003	South Africa	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1029419	Sweden	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1434448	Sweden	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
EP1777899	Sweden	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP2094042	Sweden	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777973	Sweden	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777900	Sweden	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
EP1777834	Sweden	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.221V8110-2014
72266	Singapore	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
UA55482	Ukraine	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
3351	Vietnam	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.221V8110-2014
6,574,211	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
AR014006	Argentina	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
EP1029419	Austria	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
EP1434448	Austria	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
EP1777899	Austria	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2094042	Austria	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
750154	Australia	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
EP1029419	Belgium	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
EP1777899	Belgium	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2094042	Belgium	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1777900	Belgium	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1777834	Belgium	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
PI9813885-5	Brazil	Pending	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
PI9816246-2	Brazil	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
7,079,550	United States	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
7,184,426	United States	Granted	Method and Apparatus for Burst Pilot for a Time Division Multiplex System	ATIS.3GPP.25.224V890-2012
8,311,027	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
7,848,284	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
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8,005,042	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
7,848,283	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
8,009,625	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
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7,499,427	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012

7,848,282	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
7,995,531	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
8,189,540	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
8,089,924	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
2306868	Canada	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
2660745	Canada	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1029419	Switzerland	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
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EP1777899	Switzerland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
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42513	Chile	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
CL49.111	Chile	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
ZL200410043583.2	China P.R.	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
EP1029419	Cyprus	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
302904	Czech Republic	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
PV2007-786	Czech Republic	Pending	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
PV2009-370	Czech Republic	Pending	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
EP1326471	Austria	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
ZL02106014.2	China P.R.	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
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ZL200610100787.4	China P.R.	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
ZL200610100786.X	China P.R.	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1326471	Germany	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1326471	European Patent Convention	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1326471	Spain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1326471	Finland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1326471	France	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1326471	Great Britain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
HK1050450	Hong Kong	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
HK1100475	Hong Kong	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
HK1102660	Hong Kong	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
HK1100476	Hong Kong	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
HK1100477	Hong Kong	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1326471	Italy	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1326471	Netherlands	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
519543	New Zealand	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
EP1326471	Sweden	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
520681	New Zealand	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
EP1029419	Germany	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012

EP1434448	France	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
EP1777899	France	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2094042	France	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1777898	France	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1777973	France	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1777900	France	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1777834	France	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1029419	Great Britain	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
EP1434448	Great Britain	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
EP1777899	Great Britain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2094042	Great Britain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1777898	Great Britain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1777973	Great Britain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1777900	Great Britain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1777834	Great Britain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
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EP1777899	Greece	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2094042	Greece	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
HK1033063	Hong Kong	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
HK1068743	Hong Kong	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
HK1111012	Hong Kong	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
HK1111006	Hong Kong	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
228540	Hungary	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
P0800018	Hungary	Pending	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
ID0015006	Indonesia	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
EP1029419	Ireland	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
EP1434448	Ireland	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
EP1777899	Ireland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2094042	Ireland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1777898	Ireland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1777973	Ireland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
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EP1777834	Ireland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
166221	Israel	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
201875	India	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
135798	Israel	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
EP1029419	Italy	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
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EP2094042	Italy	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012

EP1777898	Italy	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1777973	Italy	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1777900	Italy	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1777834	Italy	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
4339508	Japan	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
4955783	Japan	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
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5864476	Japan	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
10-0636923	Republic of Korea	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
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EP1029419	Luxembourg	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
MY-123975-A	Malaysia	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
EP1029419	Monaco	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
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EP1029419	Netherlands	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
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EP1777973	Netherlands	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1777900	Netherlands	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP1777834	Netherlands	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
333651	Norway	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
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PL195276	Poland	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
WO99/23844	Portugal	Pending	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
103941	Portugal	Pending	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
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EP1029419	Portugal	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
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EP2094042	Portugal	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
121884	Romania	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
123632	Romania	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
2233045	Russian Federation	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
1998/10003	South Africa	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012

EP1029419	Sweden	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
EP1434448	Sweden	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
EP1777899	Sweden	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
EP2094042	Sweden	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
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EP1777834	Sweden	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.224V890-2012
72266	Singapore	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
UA55482	Ukraine	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
3351	Vietnam	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.224V890-2012
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8,005,042	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
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8,189,540	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
8,089,924	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012

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42513	Chile	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
CL49.111	Chile	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
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302904	Czech Republic	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
PV2007-786	Czech Republic	Pending	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
PV2009-370	Czech Republic	Pending	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
EP1326471	Austria	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
ZL02106014.2	China P.R.	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
ZL200610100779.X	China P.R.	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
ZL200610100349.8	China P.R.	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
ZL200610100787.4	China P.R.	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
ZL200610100786.X	China P.R.	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
EP1326471	Germany	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
EP1326471	European Patent Convention	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
EP1326471	Spain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
EP1326471	Finland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
EP1326471	France	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
EP1326471	Great Britain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
HK1050450	Hong Kong	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
HK1100475	Hong Kong	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
HK1102660	Hong Kong	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
HK1100476	Hong Kong	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
HK1100477	Hong Kong	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
EP1326471	Italy	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
EP1326471	Netherlands	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
519543	New Zealand	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
EP1326471	Sweden	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
520681	New Zealand	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
EP1029419	Germany	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
EP1434448	Germany	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
EP1777899	Germany	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
EP2094042	Germany	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
EP1777898	Germany	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012

EP1777973	France	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
EP1777900	France	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
EP1777834	France	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
EP1029419	Great Britain	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
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EP1777898	Great Britain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
EP1777973	Great Britain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
EP1777900	Great Britain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
EP1777834	Great Britain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
EP1029419	Greece	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
EP1777899	Greece	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
EP2094042	Greece	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
HK1033063	Hong Kong	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
HK1068743	Hong Kong	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
HK1111012	Hong Kong	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
HK1111006	Hong Kong	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
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EP1777900	Ireland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
EP1777834	Ireland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
166221	Israel	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
201875	India	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
135798	Israel	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
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EP1777834	Italy	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012

4339508	Japan	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
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4594443	Japan	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
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5864476	Japan	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
10-0636923	Republic of Korea	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
10-0636924	Republic of Korea	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
EP1029419	Luxembourg	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
MY-123975-A	Malaysia	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
EP1029419	Monaco	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
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EP1029419	Netherlands	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
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EP1777900	Netherlands	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
EP1777834	Netherlands	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
333651	Norway	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
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PL195276	Poland	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
WO99/23844	Portugal	Pending	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
103941	Portugal	Pending	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
ZL98810951.4	China P.R.	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
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EP1434448	Portugal	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
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EP2094042	Portugal	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
121884	Romania	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
123632	Romania	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
2233045	Russian Federation	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
1998/10003	South Africa	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
EP1029419	Sweden	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
EP1434448	Sweden	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
EP1777899	Sweden	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
EP2094042	Sweden	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012

EP1777973	Sweden	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
EP1777900	Sweden	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
EP1777834	Sweden	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.25.304V8120-2012
72266	Singapore	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
UA55482	Ukraine	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
3351	Vietnam	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.25.304V8120-2012
6,574,211	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
AR014006	Argentina	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.45.008V8160-2014
EP1029419	Austria	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.45.008V8160-2014
EP1434448	Austria	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.45.008V8160-2014
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EP2094042	Austria	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
750154	Australia	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.45.008V8160-2014
EP1029419	Belgium	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.45.008V8160-2014
EP1777899	Belgium	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
EP2094042	Belgium	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
EP1777900	Belgium	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
EP1777834	Belgium	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
PI9813885-5	Brazil	Pending	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.45.008V8160-2014
PI9816246-2	Brazil	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
7,079,550	United States	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.45.008V8160-2014
7,184,426	United States	Granted	Method and Apparatus for Burst Pilot for a Time Division Multiplex System	ATIS.3GPP.45.008V8160-2014
8,311,027	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
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8,351,372	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
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2306868	Canada	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
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EP1029419	Switzerland	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.45.008V8160-2014
EP1434448	Switzerland	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.45.008V8160-2014

EP1777899	Switzerland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
EP2094042	Switzerland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
42513	Chile	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.45.008V8160-2014
CL49.111	Chile	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
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EP1029419	Cyprus	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.45.008V8160-2014
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PV2007-786	Czech Republic	Pending	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.45.008V8160-2014
PV2009-370	Czech Republic	Pending	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.45.008V8160-2014
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ZL200610100349.8	China P.R.	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
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EP1326471	European Patent Convention	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
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EP1326471	Finland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
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EP1326471	Great Britain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
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EP1326471	Netherlands	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
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EP1777898	Germany	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
EP1777973	Germany	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
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EP1777834	Germany	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
EP1029419	Denmark	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.45.008V8160-2014

EP1434448	Great Britain	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.45.008V8160-2014
EP1777899	Great Britain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
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EP1777973	Great Britain	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
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EP2094042	Ireland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
EP1777898	Ireland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
EP1777973	Ireland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
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EP1777834	Ireland	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.45.008V8160-2014
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PL195276	Poland	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.45.008V8160-2014
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767672	Australia	Granted	Method and Apparatus for Time Efficient Retransmission Using Symbol Accumulation	ATIS.3GPP.45.003V830-2010
2309932	Canada	Granted	Method and Apparatus for Time Efficient Retransmission Using Symbol Accumulation	ATIS.3GPP.45.003V830-2010
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EP1720278	Germany	Granted	Method and apparatus for time efficient retransmission using symbol accumulation	ATIS.3GPP.45.003V830-2010
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HK1086129	Hong Kong	Granted	Method and apparatus for time efficient retransmission using symbol accumulation	ATIS.3GPP.45.008V8160-2014
HK1100151	Hong Kong	Granted	Method and apparatus for time efficient retransmission using symbol accumulation	ATIS.3GPP.45.008V8160-2014
HK1100196	Hong Kong	Granted	Method and Apparatus for Time Efficient Retransmission Using Symbol Accumulation	ATIS.3GPP.45.008V8160-2014

164827	Israel	Granted	Method and apparatus for time efficient retransmission using symbol accumulation	ATIS.3GPP.45.008V8160-2014
136065	Israel	Granted	Method and apparatus for time efficient retransmission using symbol accumulation	ATIS.3GPP.45.008V8160-2014
EP1033005	Italy	Granted	Method and Apparatus for Time Efficient Retransmission Using Symbol Accumulation	ATIS.3GPP.45.008V8160-2014
EP1499057	Italy	Granted	Method and Apparatus for Time Efficient Retransmission Using Symbol Accumulation	ATIS.3GPP.45.008V8160-2014
EP1592162	Italy	Granted	Method and apparatus for time efficient retransmission using symbol accumulation	ATIS.3GPP.45.008V8160-2014
4242063	Japan	Granted	Method and apparatus for time efficient retransmission using symbol accumulation	ATIS.3GPP.45.008V8160-2014
4298719	Japan	Granted	Method and apparatus for time efficient retransmission using symbol accumulation	ATIS.3GPP.45.008V8160-2014
5074355	Japan	Granted	Method and apparatus for time efficient retransmission using symbol accumulation	ATIS.3GPP.45.008V8160-2014
10-0697578	Republic of Korea	Granted	Method and Apparatus for Time Efficient Retransmission Using Symbol Accumulation	ATIS.3GPP.45.008V8160-2014
10-0601065	Republic of Korea	Granted	Method and Apparatus for Time Efficient Retransmission Using Symbol Accumulation	ATIS.3GPP.45.008V8160-2014
10-0752086	Republic of Korea	Granted	Method and apparatus for time efficient retransmission using symbol accumulation	ATIS.3GPP.45.008V8160-2014
221786	Mexico	Granted	Method and Apparatus for Time Efficient Retransmission Using Symbol Accumulation	ATIS.3GPP.45.008V8160-2014
334851	Norway	Granted	Method and apparatus for time efficient retransmission using symbol accumulation	ATIS.3GPP.45.008V8160-2014
334439	Norway	Granted	Method and apparatus for time efficient retransmission using symbol accumulation	ATIS.3GPP.45.008V8160-2014
330887	Norway	Granted	Method and apparatus for time efficient retransmission using symbol accumulation	ATIS.3GPP.45.008V8160-2014
ZL98811076.8	China P.R.	Granted	Method and Apparatus for Time Efficient Retransmission Using Symbol Accumulation	ATIS.3GPP.45.008V8160-2014
ZL200410083431.5	China P.R.	Granted	Method and apparatus for time efficient retransmission using symbol accumulation	ATIS.3GPP.45.008V8160-2014
ZL200610100353.4	China P.R.	Granted	Method and Apparatus for Time Efficient Retransmission Using Symbol Accumulation	ATIS.3GPP.45.008V8160-2014
EP1033005	Sweden	Granted	Method and Apparatus for Time Efficient Retransmission Using Symbol Accumulation	ATIS.3GPP.45.008V8160-2014
EP1499057	Sweden	Granted	Method and Apparatus for Time Efficient Retransmission Using Symbol Accumulation	ATIS.3GPP.45.008V8160-2014
EP1592162	Sweden	Granted	Method and apparatus for time efficient retransmission using symbol accumulation	ATIS.3GPP.45.008V8160-2014
72982	Singapore	Granted	Method and Apparatus for Time Efficient Retransmission Using Symbol Accumulation	ATIS.3GPP.45.008V8160-2014

6,081,229	United States	Granted	SYSTEM AND METHOD FOR DETERMINING THE POSITION OF A WIRELESS CDMA TRANSCEIVER	ATIS.3GPP.25.331V8250-2016
PI9908819-3	Brazil	Pending	System and Method for Determining a Position of a Mobile Wireless CDMA Transceiver	ATIS.3GPP.25.331V8250-2016
CL42.920	Chile	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.331V8250-2016
EP1519201	Germany	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.331V8250-2016
EP1519202	Germany	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.331V8250-2016
EP1519201	European Patent Convention	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.331V8250-2016
EP1519202	European Patent Convention	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.331V8250-2016
EP1519201	France	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.331V8250-2016
EP1519201	Great Britain	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.331V8250-2016
EP1519202	Great Britain	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.331V8250-2016
HK1035033	Hong Kong	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.331V8250-2016
HK1075937	Hong Kong	Granted	System and method for determining the position of a wireless CDMA transceiver	ATIS.3GPP.25.331V8250-2016
HK1075938	Hong Kong	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.331V8250-2016
ID0013012	Indonesia	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.331V8250-2016
2000/00388/CHE	India	Pending	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.331V8250-2016
219373	Mexico	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.331V8250-2016
ZL99804092.4	China P.R.	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.331V8250-2016
176522	Taiwan	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.331V8250-2016
2235341	Russian Federation	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.331V8250-2016
64780	Ukraine	Granted	System for Determining a Position of a Mobile Wireless Transceiver (Variants) and Method for Determining a Position of a Mobile Wireless Transceiver	ATIS.3GPP.25.331V8250-2016
3227	Vietnam	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.331V8250-2016
6,081,229	United States	Granted	SYSTEM AND METHOD FOR DETERMINING THE POSITION OF A WIRELESS CDMA TRANSCEIVER	ATIS.3GPP.25.413V880-2012

PI9908819-3	Brazil	Pending	System and Method for Determining a Position of a Mobile Wireless CDMA Transceiver	ATIS.3GPP.25.413V880-2012
CL42.920	Chile	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.413V880-2012
EP1519201	Germany	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.413V880-2012
EP1519202	Germany	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.413V880-2012
EP1519201	European Patent Convention	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.413V880-2012
EP1519202	European Patent Convention	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.413V880-2012
EP1519201	France	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.413V880-2012
EP1519201	Great Britain	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.413V880-2012
EP1519202	Great Britain	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.413V880-2012
HK1035033	Hong Kong	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.413V880-2012
HK1075937	Hong Kong	Granted	System and method for determining the position of a wireless CDMA transceiver	ATIS.3GPP.25.413V880-2012
HK1075938	Hong Kong	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.413V880-2012
ID0013012	Indonesia	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.413V880-2012
2000/00388/CHE	India	Pending	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.413V880-2012
219373	Mexico	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.413V880-2012
ZL99804092.4	China P.R.	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.413V880-2012
176522	Taiwan	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.413V880-2012
2235341	Russian Federation	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.413V880-2012
64780	Ukraine	Granted	System for Determining a Position of a Mobile Wireless Transceiver (Variants) and Method for Determining a Position of a Mobile Wireless Transceiver	ATIS.3GPP.25.413V880-2012
3227	Vietnam	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.413V880-2012
6,081,229	United States	Granted	SYSTEM AND METHOD FOR DETERMINING THE POSITION OF A WIRELESS CDMA TRANSCIVER	ATIS.3GPP.25.430V800-2009
PI9908819-3	Brazil	Pending	System and Method for Determining a Position of a Mobile Wireless CDMA Transceiver	ATIS.3GPP.25.430V800-2009

CL42.920	Chile	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.430V800-2009
EP1519201	Germany	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.430V800-2009
EP1519202	Germany	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.430V800-2009
EP1519201	European Patent Convention	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.430V800-2009
EP1519202	European Patent Convention	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.430V800-2009
EP1519201	France	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.430V800-2009
EP1519201	Great Britain	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.430V800-2009
EP1519202	Great Britain	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.430V800-2009
HK1035033	Hong Kong	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.430V800-2009
HK1075937	Hong Kong	Granted	System and method for determining the position of a wireless CDMA transceiver	ATIS.3GPP.25.430V800-2009
HK1075938	Hong Kong	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.430V800-2009
ID0013012	Indonesia	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.430V800-2009
2000/00388/CHE	India	Pending	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.430V800-2009
219373	Mexico	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.430V800-2009
ZL99804092.4	China P.R.	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.430V800-2009
176522	Taiwan	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.430V800-2009
2235341	Russian Federation	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.430V800-2009
64780	Ukraine	Granted	System for Determining a Position of a Mobile Wireless Transceiver (Variants) and Method for Determining a Position of a Mobile Wireless Transceiver	ATIS.3GPP.25.430V800-2009
3227	Vietnam	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.430V800-2009
6,081,229	United States	Granted	SYSTEM AND METHOD FOR DETERMINING THE POSITION OF A WIRELESS CDMA TRANSCEIVER	ATIS.3GPP.25.453V830-2016
PI9908819-3	Brazil	Pending	System and Method for Determining a Position of a Mobile Wireless CDMA Transceiver	ATIS.3GPP.25.453V830-2016
CL42.920	Chile	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.453V830-2016

EP1519201	Germany	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.453V830-2016
EP1519202	Germany	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.453V830-2016
EP1519201	European Patent Convention	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.453V830-2016
EP1519202	European Patent Convention	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.453V830-2016
EP1519201	France	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.453V830-2016
EP1519201	Great Britain	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.453V830-2016
EP1519202	Great Britain	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.453V830-2016
HK1035033	Hong Kong	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.453V830-2016
HK1075937	Hong Kong	Granted	System and method for determining the position of a wireless CDMA transceiver	ATIS.3GPP.25.453V830-2016
HK1075938	Hong Kong	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.453V830-2016
ID0013012	Indonesia	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.453V830-2016
2000/00388/CHE	India	Pending	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.453V830-2016
219373	Mexico	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.453V830-2016
ZL99804092.4	China P.R.	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.453V830-2016
176522	Taiwan	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.453V830-2016
2235341	Russian Federation	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.453V830-2016
64780	Ukraine	Granted	System for Determining a Position of a Mobile Wireless Transceiver (Variants) and Method for Determining a Position of a Mobile Wireless Transceiver	ATIS.3GPP.25.453V830-2016
3227	Vietnam	Granted	System and Method for Determining the Position of a Wireless CDMA Transceiver	ATIS.3GPP.25.453V830-2016
7,027,484	United States	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	ATIS.3GPP.25.331V8250-2016
7,675,961	United States	Granted	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	ATIS.3GPP.25.331V8250-2016
8,345,728	United States	Granted	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	ATIS.3GPP.25.331V8250-2016
8,040,936	United States	Granted	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	ATIS.3GPP.25.331V8250-2016

EP1097528	Germany	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	ATIS.3GPP.25.331V8250-2016
EP1213856	Germany	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	ATIS.3GPP.25.331V8250-2016
EP1097528	European Patent Convention	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	ATIS.3GPP.25.331V8250-2016
EP1213856	European Patent Convention	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	ATIS.3GPP.25.331V8250-2016
EP1097528	France	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	ATIS.3GPP.25.331V8250-2016
EP1213856	France	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	ATIS.3GPP.25.331V8250-2016
EP1097528	Great Britain	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	ATIS.3GPP.25.331V8250-2016
EP1213856	Great Britain	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	ATIS.3GPP.25.331V8250-2016
HK1036532	Hong Kong	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	ATIS.3GPP.25.331V8250-2016
4536923	Japan	Granted	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	ATIS.3GPP.25.331V8250-2016
5180151	Japan	Granted	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	ATIS.3GPP.25.331V8250-2016
5901901	Japan	Granted	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	ATIS.3GPP.25.331V8250-2016
2014-096157	Japan	Pending	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	ATIS.3GPP.25.331V8250-2016
5313303	Japan	Granted	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	ATIS.3GPP.25.331V8250-2016
5631950	Japan	Granted	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	ATIS.3GPP.25.331V8250-2016
10-0757715	Republic of Korea	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	ATIS.3GPP.25.331V8250-2016
ZL99808455.7	China P.R.	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	ATIS.3GPP.25.331V8250-2016
6,560,292	United States	Granted	Method for coding in a telecommunications system	ATIS.3GPP.25.331V8250-2016
PI0109872-1	Brazil	Pending	A method for coding in a telecommunications system	ATIS.3GPP.25.331V8250-2016
6,757,335	United States	Granted	A METHOD AND APPARATUS FOR CODING IN A TELECOMMUNICATIONS SYSTEM	ATIS.3GPP.25.331V8250-2016
7,436,892	United States	Granted	METHOD AND APPARATUS FOR CODING IN A TELECOMMUNICATIONS SYSTEM	ATIS.3GPP.25.331V8250-2016
7,161,993	United States	Granted	METHOD AND APPARATUS FOR CODING IN A TELECOMMUNICATIONS SYSTEM	ATIS.3GPP.25.331V8250-2016
8,050,361	United States	Granted	Method and apparatus for coding in a telecommunications system	ATIS.3GPP.25.331V8250-2016
ZL01810841.5	China P.R.	Granted	Method and system for improving the transmission of information signals in a communications system	ATIS.3GPP.25.331V8250-2016
01926719.4	European Patent Convention	Pending	A method for coding in a telecommunications system	ATIS.3GPP.25.331V8250-2016
10009978.7	European Patent Convention	Pending	A Method and Apparatus for coding in a telecommunications system	ATIS.3GPP.25.331V8250-2016

4880169	Japan	Granted	A method for coding in a telecommunications system	ATIS.3GPP.25.331V8250-2016
5280499	Japan	Granted	A method for coding in a telecommunications system	ATIS.3GPP.25.331V8250-2016
10-0783334	Republic of Korea	Granted	A method for coding in a telecommunications system	ATIS.3GPP.25.331V8250-2016
10-0871814	Republic of Korea	Granted	A method for coding in a telecommunications system	ATIS.3GPP.25.331V8250-2016
193764	Taiwan	Granted	A method for coding in a telecommunications system	ATIS.3GPP.25.331V8250-2016
6,208,858	United States	Granted	System and Method for Reducing Call Dropping Rates in a Multi-Beam Communication System	ATIS.3GPP.25.331V8250-2016
6,714,780	United States	Granted	System and method for reducing call dropping rates in a multi-beam communication system	ATIS.3GPP.25.331V8250-2016
2337992	Canada	Granted	System and Method for Reducing Call Dropping Rates in a Multi-Beam Communication System	ATIS.3GPP.25.331V8250-2016
EP1099315	Germany	Granted	System and method for reducing call dropping rates in a multi-beam communication system	ATIS.3GPP.25.331V8250-2016
EP1099315	European Patent Convention	Granted	System and method for reducing call dropping rates in a multi-beam communication system	ATIS.3GPP.25.331V8250-2016
EP1099315	France	Granted	System and method for reducing call dropping rates in a multi-beam communication system	ATIS.3GPP.25.331V8250-2016
EP1099315	Great Britain	Granted	System and method for reducing call dropping rates in a multi-beam communication system	ATIS.3GPP.25.331V8250-2016
HK1037811	Hong Kong	Granted	System and Method for Reducing Call Dropping Rates in a Multi-Beam Communication System	ATIS.3GPP.25.331V8250-2016
4750275	Japan	Granted	System and method for reducing call dropping rates in a multi-beam communication system	ATIS.3GPP.25.331V8250-2016
10-0693621	Republic of Korea	Granted	System and Method for Reducing Call Dropping Rates in a Multi-Beam Communication System	ATIS.3GPP.25.331V8250-2016
ZL99810265.2	China P.R.	Granted	System and Method for Reducing Call Dropping Rates in a Multi-Beam Communication System	ATIS.3GPP.25.331V8250-2016
ZL200610074580.4	China P.R.	Granted	System and method for reducing call dropping rates in a multi-beam communication system	ATIS.3GPP.25.331V8250-2016
ZL200610077654.X	China P.R.	Granted	System and Method for Reducing Call Dropping Rates in a Multi-Beam Communication System	ATIS.3GPP.25.331V8250-2016
2248666	Russian Federation	Granted	System and Method for Reducing Call Dropping Rates in a Multi-Beam Communication System	ATIS.3GPP.25.331V8250-2016
6,215,779	United States	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.25.323V850-2010
ZL99811104.X	China P.R.	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.25.323V850-2010
EP1131971	Germany	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.25.323V850-2010
EP1131971	European Patent Convention	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.25.323V850-2010
EP1131971	France	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.25.323V850-2010
EP1131971	Great Britain	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.25.323V850-2010
HK1038670	Hong Kong	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.25.323V850-2010
5048179	Japan	Granted	Distributed infrastructure for wireless cata communications	ATIS.3GPP.25.323V850-2010
4673435	Japan	Granted	Distributed infrastructure for wireless cata communications	ATIS.3GPP.25.323V850-2010
10-0762562	Republic of Korea	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.25.323V850-2010

10-0939852	Republic of Korea	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.25.323V850-2010
6,215,779	United States	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.25.331V8250-2016
ZL99811104.X	China P.R.	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.25.331V8250-2016
EP1131971	Germany	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.25.331V8250-2016
EP1131971	European Patent Convention	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.25.331V8250-2016
EP1131971	France	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.25.331V8250-2016
EP1131971	Great Britain	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.25.331V8250-2016
HK1038670	Hong Kong	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.25.331V8250-2016
5048179	Japan	Granted	Distributed infrastructure for wireless cata communications	ATIS.3GPP.25.331V8250-2016
4673435	Japan	Granted	Distributed infrastructure for wireless cata communications	ATIS.3GPP.25.331V8250-2016
10-0762562	Republic of Korea	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.25.331V8250-2016
10-0939852	Republic of Korea	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.25.331V8250-2016
6,215,779	United States	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.25.413V880-2012
ZL99811104.X	China P.R.	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.25.413V880-2012
EP1131971	Germany	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.25.413V880-2012
EP1131971	European Patent Convention	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.25.413V880-2012
EP1131971	France	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.25.413V880-2012
EP1131971	Great Britain	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.25.413V880-2012
HK1038670	Hong Kong	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.25.413V880-2012
5048179	Japan	Granted	Distributed infrastructure for wireless cata communications	ATIS.3GPP.25.413V880-2012
4673435	Japan	Granted	Distributed infrastructure for wireless cata communications	ATIS.3GPP.25.413V880-2012
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EP1380138	Denmark	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.25.453V830-2016
EP1380138	European Patent Convention	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.25.453V830-2016
EP2175681	European Patent Convention	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.25.453V830-2016
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EP1380138	France	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.25.453V830-2016
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EP1380138	Greece	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.25.453V830-2016
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245970	India	Granted	A method for data flow control in a distributed data communication system	ATIS.3GPP.25.453V830-2016
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EP1380138	Sweden	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.25.453V830-2016
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75914	Ukraine	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.25.453V830-2016
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EP2175681	Germany	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.36.213V1240-2015
EP1380138	Denmark	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.36.213V1240-2015
EP1380138	European Patent Convention	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.36.213V1240-2015
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EP1380138	Italy	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.36.213V1240-2015
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10-0939940	Republic of Korea	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.36.213V1240-2015
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EP1380138	Portugal	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.36.213V1240-2015
2308161	Russian Federation	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.36.213V1240-2015
EP1380138	Sweden	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.36.213V1240-2015
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75914	Ukraine	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.36.213V1240-2015
7,248,572	United States	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.36.300V8120-2010
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EP1380138	Belgium	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.36.300V8120-2010
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2444703	Canada	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.36.300V8120-2010
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EP1380138	Switzerland	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.36.300V8120-2010
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EP2175681	Germany	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.36.300V8120-2010
EP1380138	Denmark	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.36.300V8120-2010
EP1380138	European Patent Convention	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.36.300V8120-2010
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EP1380138	Ireland	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.36.300V8120-2010
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EP1380138	Italy	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.36.300V8120-2010
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10-0939939	Republic of Korea	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.36.300V8120-2010
10-0939940	Republic of Korea	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.36.300V8120-2010
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EP1380138	Portugal	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.36.300V8120-2010
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EP1380138	Sweden	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.36.300V8120-2010
100374	Singapore	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.36.300V8120-2010
75914	Ukraine	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.36.300V8120-2010
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75914	Ukraine	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.48.008V8100-2014
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2747242	Canada	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.48.018V8110-2014
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EP1380138	Sweden	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.48.018V8110-2014
100374	Singapore	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.48.018V8110-2014
75914	Ukraine	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.48.018V8110-2014
6,366,779	United States	Granted	METHOD AND APPARATUS FOR RAPID ASSIGNMENT OF A TRAFFIC CHANNEL IN DIGITAL CELLULAR COMMUNICATION SYSTEMS	ATIS.3GPP.25.331V8250-2016
7,630,719	United States	Granted	METHOD AND APPARATUS FOR RAPID ASSIGNMENT OF A TRAFFIC CHANNEL IN DIGITAL CELLULAR COMMUNICATION SYSTEMS	ATIS.3GPP.25.331V8250-2016

4579418	Japan	Granted	Method and apparatus for rapid assignment of a traffic channel in digital cellular communciation systems	ATIS.3GPP.25.331V8250-2016
6,798,736	United States	Granted	Method and Apparatus for Transmitting and Receiving Variable Rate Data	ATIS.3GPP.25.221V8110-2014
7,315,531	United States	Granted	Method and apparatus for transmitting and receiving variable rate data	ATIS.3GPP.25.221V8110-2014
7,961,592	United States	Granted	Method and apparatus for transmitting and receiving variable rate data	ATIS.3GPP.25.221V8110-2014
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6,798,736	United States	Granted	Method and Apparatus for Transmitting and Receiving Variable Rate Data	ATIS.3GPP.25.222V890-2012
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EP1116353	France	Granted	Method and apparatus for transmitting and receiving variable rate data	ATIS.3GPP.25.222V890-2012
EP1116353	Great Britain	Granted	Method and apparatus for transmitting and receiving variable rate data	ATIS.3GPP.25.222V890-2012
EP1116353	Italy	Granted	Method and apparatus for transmitting and receiving variable rate data	ATIS.3GPP.25.222V890-2012
5474724	Japan	Granted	Method and apparatus for transmitting and receiving variable rate data	ATIS.3GPP.25.222V890-2012
5587125	Japan	Granted	Method and apparatus for transmitting and receiving variable rate data	ATIS.3GPP.25.222V890-2012
10-0817456	Republic of Korea	Granted	Method and apparatus for transmitting and receiving variable rate data	ATIS.3GPP.25.222V890-2012
10-0780277	Republic of Korea	Granted	Method and Apparatus for Transmitting and Receiving Variable Rate Data	ATIS.3GPP.25.222V890-2012
10-1067307	Republic of Korea	Granted	Method and apparatus for transmitting and receiving variable rate data	ATIS.3GPP.25.222V890-2012
6,798,736	United States	Granted	Method and Apparatus for Transmitting and Receiving Variable Rate Data	ATIS.3GPP.25.321V8170-2014
7,315,531	United States	Granted	Method and apparatus for transmitting and receiving variable rate data	ATIS.3GPP.25.321V8170-2014
7,961,592	United States	Granted	Method and apparatus for transmitting and receiving variable rate data	ATIS.3GPP.25.321V8170-2014
ZL200410032386.0	China P.R.	Granted	Method and apparatus for transmitting and receiving variable rate data	ATIS.3GPP.25.321V8170-2014
EP1116353	Germany	Granted	Method and apparatus for transmitting and receiving variable rate data	ATIS.3GPP.25.321V8170-2014
EP1116353	European Patent Convention	Granted	Method and apparatus for transmitting and receiving variable rate data	ATIS.3GPP.25.321V8170-2014

10182435.7	European Patent Convention	Pending	Method and Apparatus for Transmitting and Receiving Variable Rate Data	ATIS.3GPP.25.321V8170-2014
EP1116353	Spain	Granted	Method and apparatus for transmitting and receiving variable rate data	ATIS.3GPP.25.321V8170-2014
EP1116353	France	Granted	Method and apparatus for transmitting and receiving variable rate data	ATIS.3GPP.25.321V8170-2014
EP1116353	Great Britain	Granted	Method and apparatus for transmitting and receiving variable rate data	ATIS.3GPP.25.321V8170-2014
EP1116353	Italy	Granted	Method and apparatus for transmitting and receiving variable rate data	ATIS.3GPP.25.321V8170-2014
5474724	Japan	Granted	Method and apparatus for transmitting and receiving variable rate data	ATIS.3GPP.25.321V8170-2014
5587125	Japan	Granted	Method and apparatus for transmitting and receiving variable rate data	ATIS.3GPP.25.321V8170-2014
10-0817456	Republic of Korea	Granted	Method and apparatus for transmitting and receiving variable rate data	ATIS.3GPP.25.321V8170-2014
10-0780277	Republic of Korea	Granted	Method and Apparatus for Transmitting and Receiving Variable Rate Data	ATIS.3GPP.25.321V8170-2014
10-1067307	Republic of Korea	Granted	Method and apparatus for transmitting and receiving variable rate data	ATIS.3GPP.25.321V8170-2014
6,148,283	United States	Granted	Method and Apparatus Using Multi-Path Multi-Stage Vector Quantizer	ATIS.3GPP.45.009V800-2010
6,256,301	United States	Granted	Reservation Multiple Access	ATIS.3GPP.25.221V8110-2014
EP1121827	Austria	Granted	Reservation multiple access	ATIS.3GPP.25.221V8110-2014
EP1121827	Belgium	Granted	Reservation multiple access	ATIS.3GPP.25.221V8110-2014
EP1121827	Switzerland	Granted	Reservation multiple access	ATIS.3GPP.25.221V8110-2014
ZL99814566.1	China P.R.	Granted	Reservation Multiple Access	ATIS.3GPP.25.221V8110-2014
EP1121827	Germany	Granted	Reservation multiple access	ATIS.3GPP.25.221V8110-2014
EP1121827	Denmark	Granted	Reservation multiple access	ATIS.3GPP.25.221V8110-2014
EP1121827	European Patent Convention	Granted	Reservation multiple access	ATIS.3GPP.25.221V8110-2014
EP1121827	Spain	Granted	Reservation multiple access	ATIS.3GPP.25.221V8110-2014
EP1121827	Finland	Granted	Reservation multiple access	ATIS.3GPP.25.221V8110-2014
EP1121827	France	Granted	Reservation multiple access	ATIS.3GPP.25.221V8110-2014
EP1121827	Great Britain	Granted	Reservation multiple access	ATIS.3GPP.25.221V8110-2014
EP1121827	Greece	Granted	Reservation multiple access	ATIS.3GPP.25.221V8110-2014
HK1042399	Hong Kong	Granted	Reservation Multiple Access	ATIS.3GPP.25.221V8110-2014
EP1121827	Ireland	Granted	Reservation multiple access	ATIS.3GPP.25.221V8110-2014
EP1121827	Italy	Granted	Reservation multiple access	ATIS.3GPP.25.221V8110-2014
4485687	Japan	Granted	Reservation multiple access	ATIS.3GPP.25.221V8110-2014
10-0700954	Republic of Korea	Granted	Reservation Multiple Access	ATIS.3GPP.25.221V8110-2014
EP1121827	Netherlands	Granted	Reservation multiple access	ATIS.3GPP.25.221V8110-2014
EP1121827	Portugal	Granted	Reservation multiple access	ATIS.3GPP.25.221V8110-2014
EP1121827	Sweden	Granted	Reservation multiple access	ATIS.3GPP.25.221V8110-2014
6,256,301	United States	Granted	Reservation Multiple Access	ATIS.3GPP.25.224V890-2012
EP1121827	Austria	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
EP1121827	Belgium	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
EP1121827	Switzerland	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
ZL99814566.1	China P.R.	Granted	Reservation Multiple Access	ATIS.3GPP.25.224V890-2012
EP1121827	Germany	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
EP1121827	Denmark	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
EP1121827	European Patent Convention	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012

EP1121827	Spain	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
EP1121827	Finland	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
EP1121827	France	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
EP1121827	Great Britain	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
EP1121827	Greece	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
HK1042399	Hong Kong	Granted	Reservation Multiple Access	ATIS.3GPP.25.224V890-2012
EP1121827	Ireland	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
EP1121827	Italy	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
4485687	Japan	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
10-0700954	Republic of Korea	Granted	Reservation Multiple Access	ATIS.3GPP.25.224V890-2012
EP1121827	Netherlands	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
EP1121827	Portugal	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
EP1121827	Sweden	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
6,987,982	United States	Granted	Reservation Multiple Access	ATIS.3GPP.25.224V890-2012
7,613,462	United States	Granted	Reservation Multiple Access	ATIS.3GPP.25.224V890-2012
8,014,805	United States	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
6,788,937	United States	Granted	Reservation Multiple Access	ATIS.3GPP.25.224V890-2012
ZL00805396.0	China P.R.	Granted	Reservation Multiple Access	ATIS.3GPP.25.224V890-2012
EP1166584	Germany	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
EP1166584	European Patent Convention	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
06024501.6	European Patent Convention	Pending	Reservation Multiple Access	ATIS.3GPP.25.224V890-2012
EP1166584	Spain	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
EP1166584	Finland	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
EP1166584	France	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
EP1166584	Great Britain	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
HK1042808	Hong Kong	Granted	Reservation Multiple Access	ATIS.3GPP.25.224V890-2012
EP1166584	Italy	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
4638052	Japan	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
4638405	Japan	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
4638466	Japan	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
10-0617916	Republic of Korea	Granted	Reservation Multiple Access	ATIS.3GPP.25.224V890-2012
EP1166584	Netherlands	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
EP1166584	Sweden	Granted	Reservation multiple access	ATIS.3GPP.25.224V890-2012
6,317,435	United States	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
PI0008809-9	Brazil	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
7,292,553	United States	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
8,379,605	United States	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014

2364426	Canada	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
ZL00804791.X	China P.R.	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
7,720,022	United States	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP1394967	Belgium	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP1394967	Germany	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP2378677	Germany	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP1394967	European Patent Convention	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP2378677	European Patent Convention	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP1394967	Spain	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP1394967	Finland	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP1394967	France	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP2378677	France	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP1394967	Great Britain	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP2378677	Great Britain	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP1394967	Ireland	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP1394967	Italy	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP1394967	Netherlands	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP1394967	Sweden	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP1159792	Germany	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP2244394	Germany	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP1159792	European Patent Convention	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP2244394	European Patent Convention	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014

EP2244394	Spain	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP1159792	Finland	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP1159792	France	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP2244394	France	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP1159792	Great Britain	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP2244394	Great Britain	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
HK1043672	Hong Kong	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
ID0013573	Indonesia	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
229312	India	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP1159792	Italy	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP2244394	Italy	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
4652578	Japan	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
4824822	Japan	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
10-0730523	Republic of Korea	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
10-0765815	Republic of Korea	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
231169	Mexico	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
EP2244394	Netherlands	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
2251805	Russian Federation	Granted	Method and apparatus for maximizing the use of available capacity in a communication system	ATIS.3GPP.25.321V8170-2014
UA64820	Ukraine	Granted	Method for Transmitting Information from a Base Station to Mobile Stations in Communication System (Variants) and Apparatus for Realizing Thereof (Variants)	ATIS.3GPP.25.321V8170-2014
6,606,485	United States	Granted	CANDIDATE SYSTEM SEARCH AND SOFT HANDOFF BETWEEN FREQUENCIES IN A MULTI-CARRIER MOBILE COMMUNICATION SYSTEM	ATIS.3GPP.44.018V8170-2014
PI0014538-6	Brazil	Pending	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.018V8170-2014

7,136,648	United States	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.018V8170-2014
8,238,855	United States	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.018V8170-2014
ZL00815958.0	China P.R.	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.018V8170-2014
ZL200710166959.2	China P.R.	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.018V8170-2014
EP1224750	Germany	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.018V8170-2014
EP1224750	European Patent Convention	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.018V8170-2014
10178018.7	European Patent Convention	Pending	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.018V8170-2014
EP1224750	Spain	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.018V8170-2014
EP1224750	France	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.018V8170-2014
EP1224750	Great Britain	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.018V8170-2014
EP1224750	Italy	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.018V8170-2014
4768184	Japan	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.018V8170-2014
4768874	Japan	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.018V8170-2014
10-0903539	Republic of Korea	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.018V8170-2014
177879	Taiwan	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.018V8170-2014
6,606,485	United States	Granted	CANDIDATE SYSTEM SEARCH AND SOFT HANDOFF BETWEEN FREQUENCIES IN A MULTI-CARRIER MOBILE COMMUNICATION SYSTEM	ATIS.3GPP.44.060V8170-2014
PI0014538-6	Brazil	Pending	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.060V8170-2014
7,136,648	United States	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.060V8170-2014
8,238,855	United States	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.060V8170-2014
ZL00815958.0	China P.R.	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.060V8170-2014
ZL200710166959.2	China P.R.	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.060V8170-2014
EP1224750	Germany	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.060V8170-2014

EP1224750	European Patent Convention	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.060V8170-2014
10178018.7	European Patent Convention	Pending	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.060V8170-2014
EP1224750	Spain	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.060V8170-2014
EP1224750	France	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.060V8170-2014
EP1224750	Great Britain	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.060V8170-2014
EP1224750	Italy	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.060V8170-2014
4768184	Japan	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.060V8170-2014
4768874	Japan	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.060V8170-2014
10-0903539	Republic of Korea	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.060V8170-2014
177879	Taiwan	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.060V8170-2014
6,606,485	United States	Granted	CANDIDATE SYSTEM SEARCH AND SOFT HANDOFF BETWEEN FREQUENCIES IN A MULTI-CARRIER MOBILE COMMUNICATION SYSTEM	ATIS.3GPP.44.064V810-2014
PI0014538-6	Brazil	Pending	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.064V810-2014
7,136,648	United States	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.064V810-2014
8,238,855	United States	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.064V810-2014
ZL00815958.0	China P.R.	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.064V810-2014
ZL200710166959.2	China P.R.	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.064V810-2014
EP1224750	Germany	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.064V810-2014
EP1224750	European Patent Convention	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.064V810-2014
10178018.7	European Patent Convention	Pending	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.064V810-2014
EP1224750	Spain	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.064V810-2014
EP1224750	France	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.064V810-2014
EP1224750	Great Britain	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.064V810-2014

EP1224750	Italy	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.064V810-2014
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4768874	Japan	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.064V810-2014
10-0903539	Republic of Korea	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.064V810-2014
177879	Taiwan	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.44.064V810-2014
6,606,485	United States	Granted	CANDIDATE SYSTEM SEARCH AND SOFT HANDOFF BETWEEN FREQUENCIES IN A MULTI-CARRIER MOBILE COMMUNICATION SYSTEM	ATIS.3GPP.45.002V810-2012
PI0014538-6	Brazil	Pending	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.002V810-2012
7,136,648	United States	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.002V810-2012
8,238,855	United States	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.002V810-2012
ZL00815958.0	China P.R.	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.002V810-2012
ZL200710166959.2	China P.R.	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.002V810-2012
EP1224750	Germany	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.002V810-2012
EP1224750	European Patent Convention	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.002V810-2012
10178018.7	European Patent Convention	Pending	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.002V810-2012
EP1224750	Spain	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.002V810-2012
EP1224750	France	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.002V810-2012
EP1224750	Great Britain	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.002V810-2012
EP1224750	Italy	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.002V810-2012
4768184	Japan	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.002V810-2012
4768874	Japan	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.002V810-2012
10-0903539	Republic of Korea	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.002V810-2012
177879	Taiwan	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.002V810-2012

6,606,485	United States	Granted	CANDIDATE SYSTEM SEARCH AND SOFT HANDOFF BETWEEN FREQUENCIES IN A MULTI-CARRIER MOBILE COMMUNICATION SYSTEM	ATIS.3GPP.45.005V8170-2014
PI0014538-6	Brazil	Pending	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.005V8170-2014
7,136,648	United States	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.005V8170-2014
8,238,855	United States	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.005V8170-2014
ZL00815958.0	China P.R.	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.005V8170-2014
ZL200710166959.2	China P.R.	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.005V8170-2014
EP1224750	Germany	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.005V8170-2014
EP1224750	European Patent Convention	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.005V8170-2014
10178018.7	European Patent Convention	Pending	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.005V8170-2014
EP1224750	Spain	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.005V8170-2014
EP1224750	France	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.005V8170-2014
EP1224750	Great Britain	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.005V8170-2014
EP1224750	Italy	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.005V8170-2014
4768184	Japan	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.005V8170-2014
4768874	Japan	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.005V8170-2014
10-0903539	Republic of Korea	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.005V8170-2014
177879	Taiwan	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.005V8170-2014
6,606,485	United States	Granted	CANDIDATE SYSTEM SEARCH AND SOFT HANDOFF BETWEEN FREQUENCIES IN A MULTI-CARRIER MOBILE COMMUNICATION SYSTEM	ATIS.3GPP.45.008V8160-2014
PI0014538-6	Brazil	Pending	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.008V8160-2014
7,136,648	United States	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.008V8160-2014
8,238,855	United States	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.008V8160-2014
ZL00815958.0	China P.R.	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.008V8160-2014

ZL200710166959.2	China P.R.	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.008V8160-2014
EP1224750	Germany	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.008V8160-2014
EP1224750	European Patent Convention	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.008V8160-2014
10178018.7	European Patent Convention	Pending	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.008V8160-2014
EP1224750	Spain	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.008V8160-2014
EP1224750	France	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.008V8160-2014
EP1224750	Great Britain	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.008V8160-2014
EP1224750	Italy	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.008V8160-2014
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10-0903539	Republic of Korea	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.008V8160-2014
177879	Taiwan	Granted	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	ATIS.3GPP.45.008V8160-2014