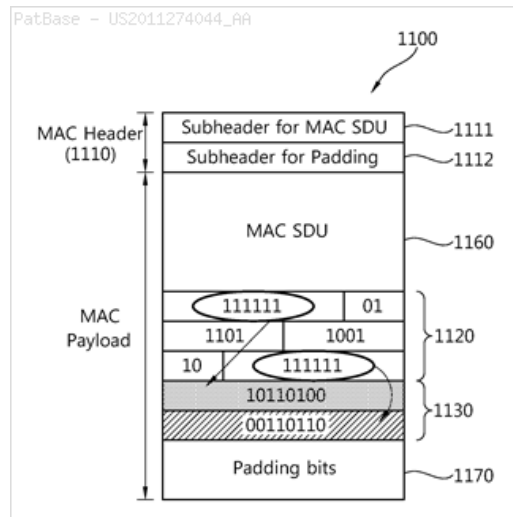


Title: APPARATUS AND METHOD OF REPORTING AMOUNT OF INFORMATION IN WIRELESS COMMUNICATION SYSTEM

Abstract: A method and apparatus of reporting an amount of information in a wireless communication system is provided. A user equipment reports a first part indicating that an amount of information is larger than a specific value, and reports a second part indicating the amount of the information.

Classifications:

International (IPC 8-9): G01R31/08 G06F11/00 G08C15/00
H04B7/14 H04B7/212 H04B7/26 H04J11/16 H04J11/00 H04J3/08
H04J3/14 H04J4/00 H04L1/00 H04L12/26 H04L12/801 H04W24/00
H04W24/04 H04W24/10 H04W36/00 H04W36/08 H04W36/16
H04W4/00 H04W48/08 H04W72/04 H04W72/12 H04W76/00
H04W76/06 H04W88/02 (Advanced/Invention);
H04B7/14 H04B7/26 H04J11/10 H04W24/10 H04W48/16 H04W76/02
H04W76/06 H04W88/04 (Advanced/Non-invention)
CPC: H04L5/0053 H04B7/15564 H04J11/0023 H04L5/0073
H04W72/1284 H04L47/10 H04W72/1221 H04W36/0094 H04W24/10
H04W36/00 H04W48/08 H04W48/16 H04W88/04 H04W76/10
H04W76/18 H04W76/38
European: H04B7/155C H04L47/10 H04W24/10 H04W48/08
H04W72/12F2 H04W76/06T T04J11/00F T04W48/16 T04W76/02
T04W88/04
US: 370/228 370/252 370/315 370/328 370/328P 370/329 370/331
370/337 370/338 455/436



Family:

Publication number	Publication date	Application number	Application date
■ CN102823288 A	20121212	CN201180015830	20110325
■ CN102823288 B	20150902	CN201180015830	20110325
■ EP2553845 A2	20130206	EP20110759745	20110324
■ EP2553845 A4	20170621	EP20110759745	20110324
■ KR101757299 B1	20170726	KR20110019327	20110304
■ KR101829832 B1	20180219	KR20110023755	20110317
■ KR20110108249 A	20111005	KR20110019327	20110304
■ KR20110108261 A	20111005	KR20110023755	20110317
■ US2011274044 AA	20111110	US20110100199	20110503
■ US2012300696 AA	20121129	US20110576331	20110324
■ US2012327802 AA	20121227	US20110582851	20110325
■ US2012327841 AA	20121227	US20110581604	20110328
■ US2013044590 AA	20130221	US20110521705	20110324
■ US8897204 BB	20141125	US20110576331	20110324
■ US8897238 BB	20141125	US20110100199	20110503
■ US8929237 BB	20150106	US20110582851	20110325
■ US8958289 BB	20150217	US20110521705	20110324
■ US9572088 BB	20170214	US20110581604	20110328
■ WO11118996 A2	20110929	WO2011KR02035	20110324
■ WO11118996 A3	20120126	WO2011KR02035	20110324
■ WO11118997 A2	20110929	WO2011KR02041	20110324
■ WO11118997 A3	20120112	WO2011KR02041	20110324
■ WO11119002 A2	20110929	WO2011KR02052	20110325
■ WO11119002 A3	20120105	WO2011KR02052	20110325
■ WO11122808 A2	20111006	WO2011KR02104	20110328
■ WO11122808 A3	20120126	WO2011KR02104	20110328

Priority:

US20100317711P	20100326	US20100318368P	20100328	US20100330888P	20100504
KR20110019327	20110304	KR20110023755	20110317	WO2011KR02035	20110324
US20110576331	20110324	US20110521705	20110324	WO2011KR02041	20110324
WO2011KR02052	20110325	US20110582851	20110325	WO2011KR02104	20110328
US20110581604	20110328	US20110100199	20110503		

Probable Assignee: LG ELECTRONICS

Assignee(s): (std): CHUN SUNG DUCK ; JUNG SUNG HOON ; LEE JAE WOOK ; LEE YOUNG DAE ; LG ELECTRONICS ; LG ELECTRONICS INC ; YI SEUNG JUNE ; PARK SUNG JUN

Inventor(s): (std) YI SEUNG JUNE ; CHUN SUNG DUCK ; PARK SUNG JUN ; LEE YOUNG DAE ; JUNG SUNG HOON ; LEE JAE WOOK

Inventor(s): YOUNG DAE LEE ; SUNG HOON JUNG ; JAE WOOK LEE ; SUNG JUN PARK ; SEUNG JUNE YI ; SUNG DUCK CHUN

Agent(s): KATERLE AXEL; BIRCH STEWART KOLASCH AND BIRCH LLP; LEE HONG DEGERMAN KANG AND WAIMEY; DENTONS US LLP; KIM YONG IN ET AL; YANG MOON OCK

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

2) Family number: 55882488 (US2014056243A)

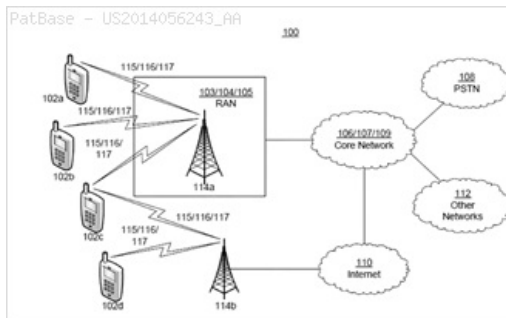
© PatBase

Title: OPERATING WITH MULTIPLE SCHEDULERS IN A WIRELESS SYSTEM

Abstract: Systems and methods are disclosed for a WTRU to operate using multiple schedulers. The WTRU may exchange data with the network over more than one data path, such that each data path may use a radio interface connected to a different network node and each node may be associated with an independent scheduler. For example, a WTRU may establish a RRC connection between the WTRU and a network. The RRC connection may establish a first radio interface between the WTRU and a first serving site of the network and a second radio interface between the WTRU and a second serving site of the network. The RRC connection may be established between the WTRU and the MeNB and a control function may be established between the WTRU and the SCell. The WTRU may receive data from the network over the first radio interface or the second radio interface.

Classifications:

International (IPC 8-9): H04B7/024 H04B7/26 H04L5/00 H04W H04W16/32 H04W24/10 H04W28/16 H04W36/00 H04W52/30 H04W52/32 H04W52/34 H04W52/36 H04W72/00 H04W72/04 H04W72/12 H04W74/04 H04W76/00 H04W76/02 H04W76/04 H04W76/15 H04W76/27 H04W80/02 H04W88/06 (Advanced/Invention); H04B7/02 H04W24/00 H04W48/16 H04W52/14 H04W52/26 H04W52/28 H04W52/30 H04W72/04 H04W84/04 H04W88/06 (Advanced/Non-invention); H04W (Subclass/Invention)
CPC: H04W72/044 H04W24/00 H04W36/00 H04W48/16 H04W72/1263 H04B7/2612 H04L5/0032 H04W72/042 H04W16/32 H04W84/042 H04B7/024 H04W52/146 H04W52/265 H04W52/281 H04W52/367 H04W72/1268 H04W88/06 H04W76/27 H04W36/0072 H04W74/04 H04W76/15 H04W24/10 H04W52/365
US: 1/1 370/328 370/329 370/330



Family:

Publication number	Publication date	Application number	Application date
BR112015003973 A2	20170704	BR20151103973	20130823
CA2882876 AA	20150223	CA20132882876	20130823
CN104584633 A	20150429	CN201380044495	20130823
CN104584633 B	20181218	CN201380044495	20130823
CN104604318 A	20150506	CN201380044499	20130823
CN104604318 B	20190312	CN201380044499	20130823
CN109982397 A	20190705	CN201811404300	20130823
CN110062429 A	20190726	CN201811404307	20130823
CN110087266 A	20190802	CN201910118827	20130823
EP2888906 A1	20150701	EP20130759618	20130823
EP2888918 A1	20150701	EP20130759619	20130823
HK1208116 A1	20160219	HK20150108705	20150908
JP2015530042 A2	20151008	JP20150528696	20130823
JP2015530042 T2	20151008	JP20150528696T	20130823
JP2015531220 T2	20151029	JP20150528699T	20130823
JP2018117392 A2	20180726	JP20180089378	20180507
JP2019009807 A2	20190117	JP20180164523	20180903
JP6336983 B2	20180606	JP20150528699T	20130823
JP6397819 B2	20180926	JP20150528696T	20130823
KR101708574 B1	20170220	KR20157007156	20130823
KR101860811 B1	20180524	KR20167029128	20130823
KR101925764 B1	20181205	KR20187013745	20130823
KR20150047543 A	20150504	KR20157007156	20130823
KR20150047570 A	20150504	KR20157007300	20130823
KR20160124258 A	20161026	KR20167029128	20130823
KR20160127174 A	20161102	KR20167029912	20130823
KR20180055926 A	20180525	KR20187013745	20130823
KR20180118817 A	20181031	KR20187030804	20130823
KR20180130005 A	20181205	KR20187034526	20130823
RU2015109937 A	20161010	RU20150109937	20130823
RU2603626 C2	20161127	RU20150109937	20130823
SG11201501279U A1	20150429	SG20151101279	20130823
TW201422037 A	20140601	TW20130130267	20130823
TW201424434 A	20140616	TW20130130268	20130823
TWI617212 B	20180301	TW20130130267	20130823
TWI632823 B	20180811	TW20130130268	20130823
US2014056243 AA	20140227	US20130974946	20130823
US2014056278 AA	20140227	US20130974911	20130823
US2015312957 AA	20151029	US20150794493	20150708
US2016338138 AA	20161117	US20160221528	20160727
US2017265176 AA	20170914	US20170609822	20170531
US2018020500 AA	20180118	US20170695850	20170905
US2019274183 AA	20190905	US20190418832	20190521
US9113450 BB	20150818	US20130974946	20130823
US9699779 BB	20170704	US20130974911	20130823
US9763282 BB	20170912	US20160221528	20160727
US9788358 BB	20171010	US20150794493	20150708

US10349463 BB	20190709	US20170695850	20170905
WO14031989 A1	20140227	WO2013US56444	20130823
WO14031998 A1	20140227	WO2013US56455	20130823

Priority:

US20120692548P 20120823	US20120726448P 20121114	US20120726262P 20121114
US20130753323P 20130116	US20130753334P 20130116	US20130808013P 20130403
US20130821071P 20130508	US20130821154P 20130508	US20130821186P 20130508
US20130863311P 20130807	CN201380044495 20130823	CN201380044499 20130823
JP20150528699T 20130823	JP20150528696T 20130823	US20130974946 20130823
US20130974911 20130823	WO2013US56455 20130823	WO2013US56444 20130823
US20150794493 20150708	US20160221528 20160727	US20170609822 20170531
US20170695850 20170905	JP20180089378 20180507	JP20180164523 20180903
US20190418832 20190521		

Probable Assignee: INTERDIGITAL PATENT HOLDINGS INC

Assignee(s): (std): INTERDIGITAL PEJ TENT K HOLDINGZ INK ; INTERDIGITAL PATENT HOLDINGS ; INTERDIGITAL PATENT HOLDINGS INC

Assignee(s): MARINIER PAUL ; PELLETIER GHYSLAIN ; TOOHER J PATRICK ; PANI DIANA

Inventor(s): (std): KAUR SAMIAN J ; PANI DIANA ; TERRY STEPHEN E ; ADJAKPLE PASCAL M ; PELLETIER GHYSLAIN ; MARINIER PAUL ; TOOHER J PATRICK ; KAUR SAMIAN ; ADZHAKPLE PASKAL M ; MARINE POL ; PELLETE GISLEN ; KAUR SAMIAN DZH ; TERRI STEFEN E ; GHYSLAIN PELLETIER ; PAUL MARINIER ; DIANA PANI ; STEPHEN F TERRY ; PASCAL M ADJAKPLE ; SAMIAN J KAUR ; PAUL MARNIER ; J PATRICK TOOHER

Inventor(s): TOOHER J

Agent(s): RIDOUT AND MAYBEE LLP; HJALMARSSON MAGNUS AXEL; JOHANSSON MAGNUS; CHINA PATENT AGENT HK LTD; TANI AND ABE PC; CONDO ROCCIA KOPTIW LLP; SANTOS JULIAN F; ROCCIA VINCENT J ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

3) Family number: 56394488 (US2015181475A)

© PatBase

Title: METHOD FOR REPORTING INFORMATION ON MULTIBAND CAPABILITY TO NETWORK AT USER EQUIPMENT IN WIRELESS COMMUNICATION SYSTEM AND AN APPARATUS THEREFOR

Abstract: A method for processing a signal at a user equipment in a wireless communication system is disclosed. The method includes steps of receiving, from a source cell, a handover command including information on an operating band of a target cell; and if the carrier frequency of the target cell is not calculated using the information on the operating band of the target cell, configuring the target cell as a barred cell.

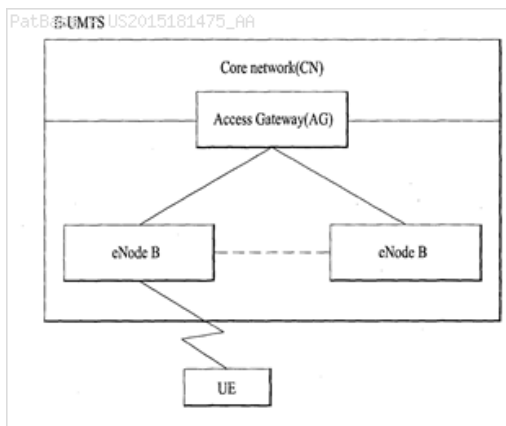
Classifications:

International (IPC 8-9): H04W36/00 H04W36/08

H04W36/34 (Advanced/Invention)

CPC: H04W36/0055 H04W36/0083

US: 1/1 455/436



Family:

Publication number	Publication date	Application number	Application date
US2015181475 AA	20150625	US20130416028	20131018
US9392505 BB	20160712	US20130416028	20131018
WO14069825 A1	20140508	WO2013KR09331	20131018

Priority:

US20120721440P 20121101	US20120722247P 20121105	WO2013KR09331 20131018
US20130416028 20131018		

Probable Assignee: LG ELECTRONICS

Assignee(s): (std): LG ELECTRONICS ; LG ELECTRONICS INC

Inventor(s): (std): LEE YOUNGDAE ; KIM SANGWON ; JUNG SUNGHOON

Agent(s): DENTONS US LLP; KIM YONG IN ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

4) Family number: 49390560 (US2011194441A)

© PatBase

Abstract: A method of discarding logged measurements in a wireless communication system is provided. A user equipment in a Radio Resource Control (RRC) connected mode receives a Minimization of Drive Tests (MDT) configuration from a base station and starts a validity timer upon receiving the MDT configuration. The user equipment in an RRC idle mode logs measurements based on the MDT configuration to collect logged measurements while the validity timer is running. When the validity timer is expired, the user equipment discards the MDT configuration and starts a conservation timer. When the conservation timer is expired, the logged measurements are discarded.

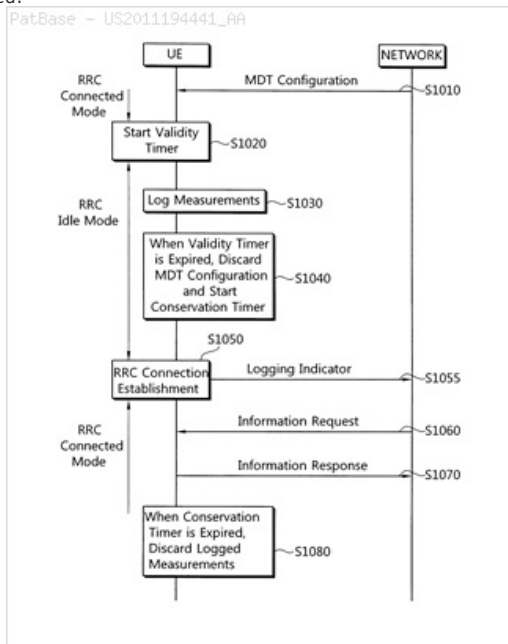
Classifications:

International (IPC 8-9): G01R31/08 H04B17/00 H04B7/14 H04B7/26 H04H20/71 H04J11/00 H04J3/08 H04J3/24 H04L12/26 H04W16/18 H04W24/00 H04W24/04 H04W24/06 H04W24/08 H04W24/10 H04W4/00 H04W48/08 H04W52/02 H04W68/00 H04W72/04 H04W74/08 H04W76/04 H04W76/20 (Advanced/Invention); H04B7/26 H04J11/00 H04W24/06 H04W24/08 H04W24/10 H04W4/12 H04W48/08 H04W74/08 H04W76/04 (Advanced/Non-invention)

CPC: H04W74/002 H04W74/0833 H04W48/08 H04W24/00 H04W4/12 H04W52/0216 H04W68/00 H04W68/005 H04L5/0053 H04L5/0096 H04W74/0841 H04W24/08 H04W24/10 H04W24/06 Y02D70/1242 Y02D70/1262 Y02D70/146 Y02D70/21 Y02D70/23 Y02D70/24 H04W76/27 H04W76/28 H04W76/19 H04W76/18 Y02D70/00

European: H04W24/00 H04W24/10 H04W48/08 H04W52/02T2A H04W74/00C H04W76/02R H04W76/04R T04W4/12 T04W68/00 T04W74/08D T04W76/04R

US: 1/1 370/225 370/241 370/252 370/252P 370/311 370/312 370/312P 370/314 370/315 370/315S 370/328 370/328S 370/329 370/329S 370/373 370/426 370/496 370/913 455/422.1 455/423 455/424 455/425 455/458 455/67.11 455/67.110P



Family:

Publication number	Publication date	Application number	Application date
CN102754469 A	20121024	CN201180008849	20110207
CN102754469 B	20150617	CN201180008849	20110207
CN102754470 A	20121024	CN201180008854	20110207
CN102754470 B	20160113	CN201180008854	20110207
CN105430686 A	20160323	CN201510751591	20110207
CN105430686 B	20190507	CN201510751591	20110207
DE602011038344 D1	20170720	DE201160038344T	20110207
DE602011041325 D1	20171019	DE201160041325T	20110207
DE602011048173 D1	20180530	DE201160048173T	20110207
EP2534873 A2	20121219	EP20110742417	20110207
EP2534873 A4	20161005	EP20110742417	20110207
EP2534873 B1	20170906	EP20110742417	20110207
EP2534874 A2	20121219	EP20110742418	20110207
EP2534874 A4	20161005	EP20110742418	20110207
EP2534874 B1	20170531	EP20110742418	20110207
EP3177062 A1	20170607	EP20160204001	20110207
EP3177062 B1	20180502	EP20160204001	20110207
ES2629635 T3	20170811	ES20110742418T	20110207
IN01881KN2012 A	20130315	IN2012KN01881	20120724
IN305430 B	20190111	IN2012KN01881	20120724
JP2013519329 T2	20130523	JP20120552794T	20110207
JP2013519330 T2	20130523	JP20120552795T	20110207
JP5640097 B2	20141210	JP20120552794T	20110207
JP5640098 B2	20141210	JP20120552795T	20110207
KR101674222 B1	20161109	KR20110009700	20110131
KR101676045 B1	20161115	KR20110009701	20110131
KR101742994 B1	20170615	KR20110009400	20110131
KR101758272 B1	20170717	KR20110002582	20110111
KR101781853 B1	20170928	KR20110002944	20110112
KR101823475 B1	20180130	KR20110010156	20110201
KR20110093612 A	20110818	KR20110002582	20110111
KR20110093613 A	20110818	KR20110002944	20110112
KR20110093637 A	20110818	KR20110009400	20110131
KR20110093642 A	20110818	KR20110009700	20110131
KR20110093643 A	20110818	KR20110009701	20110131
KR20110093648 A	20110818	KR20110010156	20110201
RU2508610 C1	20140227	RU20120138448	20110207
US2011194441 AA	20110811	US20110023194	20110208
US2011194478 AA	20110811	US20110023981	20110209
US2011195668 AA	20110811	US20110022910	20110208
US2012287836 AA	20121115	US20110518999	20110208
US2012300655 AA	20121129	US20110522282	20110209
US2012314566 AA	20121213	US20110522846	20110208
US2014242974 AA	20140828	US20140267595	20140501
US2015029867 AA	20150129	US20140484864	20140912
US2015281995 AA	20151001	US20150722996	20150527

US2015373573 AA	20151224	US20150840658	20150831
US8767723 BB	20140701	US20110518999	20110208
US8787834 BB	20140722	US20110022910	20110208
US8797935 BB	20140805	US20110023981	20110209
US8811159 BB	20140819	US20110522846	20110208
US8897150 BB	20141125	US20110023194	20110208
US8953477 BB	20150210	US20110522282	20110209
US9072004 BB	20150630	US20140484864	20140912
US9154989 BB	20151006	US20140267595	20140501
US9414253 BB	20160809	US20150722996	20150527
US9807636 BB	20171031	US20150840658	20150831
WO11099725 A2	20110818	WO2011KR00761	20110207
WO11099725 A3	20111124	WO2011KR00761	20110207
WO11099726 A2	20110818	WO2011KR00762	20110207
WO11099726 A3	20111124	WO2011KR00762	20110207
WO11099744 A2	20110818	WO2011KR00812	20110208
WO11099744 A3	20120105	WO2011KR00812	20110208
WO11099745 A2	20110818	WO2011KR00814	20110208
WO11099745 A3	20111110	WO2011KR00814	20110208
WO11099753 A2	20110818	WO2011KR00834	20110209
WO11099753 A3	20120105	WO2011KR00834	20110209

Priority:

US20100302927P	20100209	US20100308281P	20100225	US20100325363P	20100418
US20100356019P	20100617	KR20110002582	20110111	KR20110002944	20110112
KR20110009701	20110131	KR20110009400	20110131	KR20110009700	20110131
KR20110010156	20110201	CN201180008854	20110207	EP20110742417	20110207
EP20110742418	20110207	EP20160204001	20110207	WO2011KR00762	20110207
WO2011KR00761	20110207	US20110022910	20110208	US20110023194	20110208
WO2011KR00812	20110208	US20110518999	20110208	WO2011KR00814	20110208
US20110522846	20110208	US20110023981	20110209	WO2011KR00834	20110209
US20110522282	20110209	US20140267595	20140501	US20140484864	20140912
US20150722996	20150527	US20150840658	20150831		

Probable Assignee: LG ELECTRONICS

Assignee(s): (std): JUNG SUNG HOON ; LEE SUNG MIN ; LEE YOUNG DAE ; LG ELECTRONICS ; YI SEUNG JUNE ; PARK SUNG JUN ; LG ELECTRONICS INC ; CHUN SUNG DUCK

Assignee(s): EHLDZHI EHLEKTRONIKS INK

Inventor(s): (std): MIN LEE SUNG ; PARK SUNG DZUN ; LI JOUNG DAE ; JI SEUNG DZUN ; CHUN SUNG DUK ; DZUNG SUNG KHOON ; DAE LEE YOUNG ; SUNG PARK JUN ; HOON JUNG SUNG ; JUNE YI SEUNG ; DUCK CHUN SUNG ; LEE SUNG MIN ; JUNG SUNG HOON ; LEE YOUNG DAE ; PARK SUNG JUN ; CHUN SUNG DUCK ; YI SEUNG JUNE

Inventor(s): SUNG JUN PARK ; YOUNG DAE LEE ; SUNG HOON JUNG ; SEUNG JUNE YI ; SUNG DUCK CHUN ; SUNG MIN LEE

Agent(s): WUESTHOFF AND WUESTHOFF PATENTANWALTE PARTG MBB; KATERLE AXEL; ELZABURU SLP
ELZABURU SLP; MORGAN LEWIS AND BOCKIUS LLP; MCKENNA LONG AND ALDRIDGE LLP; BIRCH
STEWART KOLASCH AND BIRCH LLP; DENTONS US LLP; YANG MOON OCK; KIM YONG IN ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU
CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL
IN IS IT JP KE KG KM KN KP KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW
MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV
SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

5) Family number: 57368612 (US2016014686A)

© PatBase

Title: METHOD AND APPARATUS FOR ESTABLISHING SESSION IN WIRELESS COMMUNICATION SYSTEM

Abstract: A method and apparatus for establishing a session in a wireless communication system is provided. According to the present invention, a session of a 3rd generation partnership project (3GPP) long-term evolution (LTE) system or a session of a Wi-Fi system can be established for user plane (U-plane) switch in a converged system of the 3GPP LTE system and the Wi-Fi system. After performing U-plane switch, an entity of the LTE system may suspend (deactivate) and release radio bearers mapped to all of evolved packet system (EPS) bearer related to U-plane.

Classifications:

International (IPC 8-9): H04W28/02 H04W48/18 H04W76/02

H04W76/06 (Advanced/Invention);

H04W28/08 H04W36/14 H04W36/22 H04W76/02

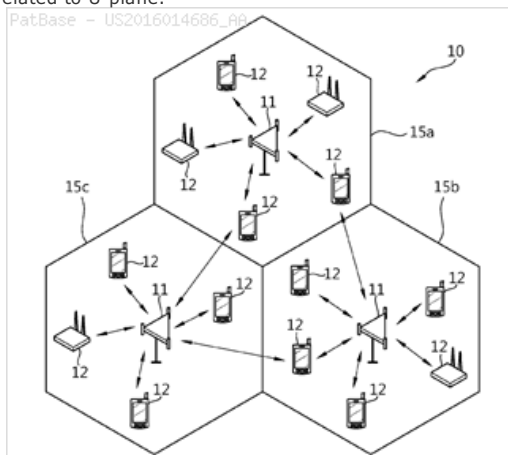
H04W88/06 (Advanced/Non-invention)

CPC: H04W48/18 H04W28/0268 H04W28/0231 H04W28/08

H04W36/14 H04W36/22 H04W88/06 H04W76/12 H04W76/14

H04W76/16

US: 370/328



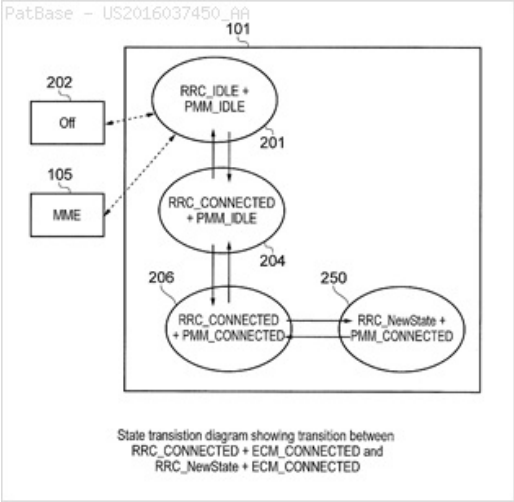
Family:

Publication number	Publication date	Application number	Application date
US2016014686 AA	20160114	US20140772857	20140307

Abstract: A communications device establishes a communications context for communicating data packets using a packet communications bearer from the communications device via a mobile communications network. A controller of the communications device is configured to identify that the communications device can enter a stasis state because no data packets are available for transmission for a predetermined time via the packet communications bearer or there are no data packets to receive via the packet communications bearer, to transmit a stasis state message to the mobile communications network, and to store information relating to the communications context associated with the packet communications bearer in a data store. The stored information can be used by the controller to re-establish the packet communications bearer to transmit and/or receive data packets using the packet communications bearer, the communications device thereby entering the stasis state.

Classifications:

International (IPC 8-9): H04W52/02 H04W76/02
H04W76/27 (Advanced/Invention);
H04W76/12 H04W76/19 H04W84/04 (Advanced/Non-invention)
CPC: H04W52/0241 H04W52/0251 H04W84/042 H04W52/0209
H04W76/12 H04W76/19 H04W76/27 Y02D70/1242 Y02D70/1262
Y02D70/142 Y02D70/21 Y02D70/24 Y02D70/00
US: 1/1 370/311



Family:

Publication number	Publication date	Application number	Application date
EP2989835 A1	20160302	EP20140715081	20140327
EP2989835 B1	20190626	EP20140715081	20140327
GB201307188 A0	20130529	GB20130007188	20130422
GB2513313 A1	20141029	GB20130007188	20130422
US2016037450 AA	20160204	US20140781750	20140327
US2018249407 AA	20180830	US20180967038	20180430
US2019037493 AA	20190131	US20180145926	20180928
US10117176 BB	20181030	US20180967038	20180430
US10383052 BB	20190813	US20180145926	20180928
WO14174243 A1	20141030	WO2014GB50973	20140327

Priority:

GB20130007188 20130422 WO2014GB50973 20140327 US20150781750 20151001
US20180967038 20180430 US20180145926 20180928

Probable Assignee: SONY CORP

Assignee(s): (std): SONY CORP ; SONY EUROPE LTD

Inventor(s): (std): RICHARDS DEREK JOHN

Inventor(s): DEREK JOHN RICHARDS

Agent(s): D YOUNG AND CO LLP; XSENSUS LLP; DEVILE JONATHAN

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

8) Family number: 58867806 (US2016302153A)

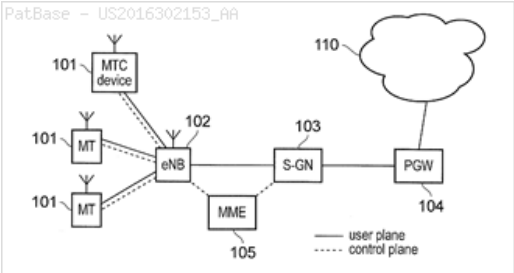
© PatBase

Title: COMMUNICATIONS DEVICE AND METHOD

Abstract: A communications device establishes a communications context for communicating data packets using a packet communications bearer from the communications device via mobile communications network in a connected state and releases communications context when in an idle state. A controller is configured in combination with a receiver to receive signalling information providing an indication of one or more functions performed by at least one of the receiver, a transmitter, or the controller which can be changed in a power saving state, and when in either the idle state or the connected state, to enter the power saving state in which the one or more of the operations performed by at least one of the receiver, the transmitter, or the controller are changed in accordance with the indication of the changed functions received in the signalling information from the mobile communications network.

Classifications:

International (IPC 8-9): H04B7/00 H04J11/00 H04L29/06 H04W36/30
H04W4/00 H04W4/70 H04W40/00 H04W52/02 H04W64/00
H04W68/02 H04W72/04 H04W76/04 H04W76/27 H04W76/28
H04W88/12 H04W88/16 (Advanced/Invention);
H04J11/00 H04L29/06 H04W36/30 H04W4/00 H04W4/70 H04W64/00
H04W68/02 H04W88/12 H04W88/16 (Advanced/Non-invention)
CPC: H04J11/00 H04W40/005 H04W72/048 H04L69/28 H04W64/003
H04W68/02 H04W88/12 H04Q2209/60 H04W88/16 H04W52/0222
H04W4/70 H04W76/27 H04W76/28 Y02D70/00 H04W36/30
H04W52/0212 Y02D70/1242 Y02D70/1262 Y02D70/21 Y02D70/24
Y02D70/25
US: 1/1 370/311



Family:

Publication number	Publication date	Application number	Application date
CN105580488 A	20160511	CN201480053573	20140910
DE602014019140 D1	20180125	DE201460019140T	20140910
EP3039941 A1	20160706	EP20140761663	20140910
EP3039941 B1	20171227	EP20140761663	20140910
EP3301995 A1	20180404	EP20170197840	20140910
EP3301995 B1	20190821	EP20170197840	20140910
ES2660039 T3	20180320	ES20140761663T	20140910
US2016302153 AA	20161013	US20140915999	20140910
US2019075517 AA	20190307	US20180157901	20181011
US10117180 BB	20181030	US20140915999	20140910
WO15043958 A1	20150402	WO2014EP69308	20140910

Priority:

EP20130186547 20130927 EP20140761663 20140910 WO2014EP69308 20140910
US20160915999 20160302 US20180157901 20181011

Probable Assignee: SONY CORP

Assignee(s): (std): SONY CORP ; SONY EUROPE LTD

Inventor(s): (std): MORIOKA YUCH ; MARTIN BRAN ALEXANDER ; WAKABAYASHI HDEJ ; KAHTAVA JUSS ; MORIOKA YUICHI ; MARTIN BRIAN ALEXANDER ; KAHTAVA JUSSI ; WAKABAYASHI HIDEJI

Agent(s): D YOUNG AND CO LLP; LEHMANN MARIA ISABEL; XSENSUS LLP; DEVILE JONATHAN

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

9) Family number: 47905900 (US2010330921A)

© PatBase

Title: METHOD OF TRANSMITTING MEASUREMENT REPORT IN WIRELESS COMMUNICATION SYSTEM

Abstract: Disclosed is a wireless communication system and terminal for providing a wireless communication service, and more particularly, a method of transmitting a measurement log from a terminal to a network when a RRC connected terminal has not found a RRC connectable network, although a wireless dedicated channel is not allocated between the terminal and the network, in an Evolved Universal Mobile Telecommunications System (E-UMTS) evolved from a UMTS, Long Term Evolution (LTE) System or LTE-Advanced (LTE-A) system.

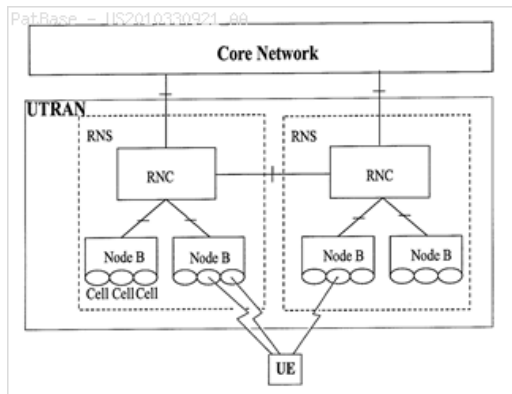
Classifications:

International (IPC 8-9): H04B17/00 H04B17/24 H04B17/309 H04B7/00 H04B7/14 H04B7/26 H04J1/16 H04L1/00 H04L12/26 H04W24/00 H04W24/04 H04W24/08 H04W24/10 H04W28/24 H04W36/00 H04W36/04 H04W36/08 H04W36/30 H04W36/32 H04W4/00 H04W48/20 H04W76/02 H04W76/04 H04W8/02 H04W84/04 (Advanced/Invention); H04W24/00 H04W4/00 H04W76/04 (Advanced/Non-invention)

CPC: H04W36/32 H04W48/20 H04W64/006 H04W24/04 H04W16/18 H04W24/08 H04W36/0094 H04W24/10 H04B7/2606 H04W28/24 H04W84/047 H04W36/04 H04W8/02 H04W76/19 H04W76/27 H04W76/10 H04B17/24 H04B17/309 H04W76/28

European: H04B17/00B1 H04B17/00B4 H04B7/155F H04B7/26B2 H04W24/04 H04W24/08 H04W28/24 H04W48/20 H04W76/02R T04W16/18 T04W36/00P8E T04W76/04R T04W84/04C4

US: 1/1 370/216 370/216P 370/225 370/252 370/252P 370/328 370/329 370/331 370/332 370/335 370/338 455/423 455/423P 455/423S 455/436 455/436S 455/443 455/444 455/444P 455/67.11 455/67.110P 709/224

**Family:**

Publication number	Publication date	Application number	Application date
CN102461242 A	20120516	CN201080027694	20100624
CN102461242 B	20150826	CN201080027694	20100624
CN102474777 A	20120523	CN201080025450	20100726
CN102474777 B	20150401	CN201080025450	20100726
CN102804850 A	20121128	CN201080026461	20100625
CN102804850 B	20150610	CN201080026461	20100625
EP2446658 A2	20120502	EP20100792346	20100624
EP2446658 A4	20160413	EP20100792346	20100624
GB201120282 A0	20120104	GB20110020282	20100726
GB201120482 A0	20120111	GB20110020482	20100625
GB2482820 A1	20120215	GB20110020282	20100726
GB2482820 B2	20140423	GB20110020282	20100726
GB2483577 A1	20120314	GB20110020482	20100625
GB2483577 B2	20131225	GB20110020482	20100625
KR101636582 B1	20160706	KR20100055190	20100611
KR101707683 B1	20170216	KR20100058237	20100618
KR20100138759 A	20101231	KR20100055190	20100611
KR20100138775 A	20101231	KR20100058237	20100618
KR20110011554 A	20110208	KR20100070908	20100722
US2010330921 AA	20101230	US20100822041	20100623
US2011019532 AA	20110127	US20100840892	20100721
US2011021201 AA	20110127	US20100843401	20100726
US2012064886 AA	20120315	US20100321482	20100625
US2012099461 AA	20120426	US20100375456	20100623

US2013265903 AA	20131010	US20130907332	20130531
US8260306 BB	20120904	US20100843401	20100726
US8295165 BB	20121023	US20100840892	20100721
US8478200 BB	20130702	US20100822041	20100623
US8520546 BB	20130827	US20100375456	20100623
US8880078 BB	20141104	US20100321482	20100625
US9125102 BB	20150901	US20130907332	20130531
WO10151047 A2	20101229	WO2010KR04077	20100623
WO10151047 A3	20110414	WO2010KR04077	20100623
WO10151064 A2	20101229	WO2010KR04116	20100624
WO10151064 A3	20110421	WO2010KR04116	20100624
WO10151089 A2	20101229	WO2010KR04162	20100625
WO10151089 A3	20110414	WO2010KR04162	20100625
WO11013967 A2	20110203	WO2010KR04889	20100726
WO11013967 A3	20110603	WO2010KR04889	20100726

Priority:

US20090220189P	20090624	US20090220590P	20090626	US20090228949P	20090727
US20090232777P	20090810	US20090233806P	20090813	KR20100005590	20100611
KR20100055190	20100611	KR20100058237	20100618	US20100822041	20100623
US20100375456	20100623	WO2010KR04077	20100623	WO2010KR04116	20100624
US20100321482	20100625	WO2010KR04162	20100625	US20100840892	20100721
KR20100070908	20100722	US20100843401	20100726	WO2010KR04889	20100726
US20130907332	20130531				

Probable Assignee: LG ELECTRONICS

Assignee(s): (std): CHUN SUNG DUCK ; CHUN SUNGDUCK ; JUNG SUNG HOON ; JUNG SUNGHOON ; KIM SUNHEE ; LG ELECTRONICS INC ; YI SEUNGJUNE ; PARK SUNGJUN ; YI SEUNG JUNE ; PARK SUNG JUN ; LEE YOUNG DAE ; LEE SUNG MIN ; LG ELECTRONICS

Inventor(s): (std): YI SEUNG JUNE ; CHUN SUNG DUCK ; KIM SUNHEE ; PARK SUNG JUN ; JUNG SUNG HOON ; YI SEUNGJUNE ; CHUN SUNGDUCK ; PARK SUNGJUN ; JUNG SUNGHOON ; LEE YOUNG DAE ; LEE SUNG MIN ; KIM SUN HEE ; JEONG SEONG HOON ; SUNG DUCK CHUN ; SUNG HOON JUNG ; SUNGDUCK CHUN ; SUN HEE KIM ; SUNGHOON JUNG ; SEUNGJUNE YI ; SUNGJUN PARK ; SUNHEE KIM ; SUNG PARK JUN ; SEUNG JUNE YI

Inventor(s): SUNG MIN LEE ; SUNG JUN PARK

Agent(s): GUNZELMANN RAINER; MCKENNA LONG AND ALDRIDGE LLP; LEE HONG DEGERMAN KANG AND WAIMEY; DENTONS US LLP; YANG MOON OCK; PARK JANG WON

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

10) Family number: 43946988 (US2010074202A)

© PatBase

Title: METHOD FOR TRANSMITTING AND RECEIVING SIGNALS IN CONSIDERATION OF TIME ALIGNMENT TIMER AND USER EQUIPMENT FOR THE SAME

Abstract: A method for transmitting and receiving signals in consideration of a time alignment timer and user equipment (UE) for the same are provided. In this method, a UE performs initial transmission or retransmission of an uplink signal using wireless resources corresponding to an uplink grant signal received from a base station only when a time alignment timer of the UE is running. The UE does not transmit a HARQ feedback signal for a downlink signal received from the base station to the base station when the time alignment timer of the UE is not running.

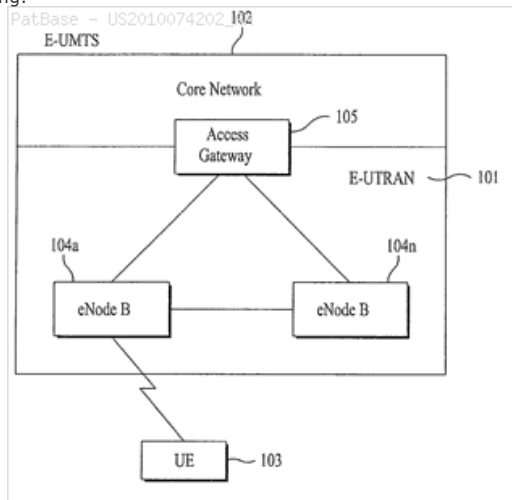
Classifications:

International (IPC 8-9): H04B7/005 H04B7/155 H04B7/26 H04J1/00 H04J3/00 H04L1/18 H04L12/26 H04W24/02 H04W24/10 H04W36/00 H04W36/14 H04W36/16 H04W36/30 H04W4/00 H04W48/18 H04W56/00 H04W60/00 H04W72/04 H04W72/14 H04W76/02 H04W76/04 H04W80/02 H04W88/02 H04W88/06 (Advanced/Invention); H04L1/18 (Advanced/Non-invention); H04B7/005 H04B7/155 H04B7/26 H04L1/16 H04W36/00 H04W56/00 H04W60/00 H04W72/00 H04W80/00 H04W88/00 (Core/Invention); H04L1/16 (Core/Non-invention)

CPC: H04L1/1642 H04L1/1685 H04L1/1841 H04L1/1848 H04L1/1854 H04W72/042 H04B7/2668 H04B7/2681 H04W56/00 H04L1/1812 H04W36/0066 H04W24/02 H04W48/18 H04W56/004 H04W36/14 H04W36/16 H04W36/30 H04W88/06 H04W76/19 H04W76/27

European: H04B7/26V4 H04B7/26V6D2 H04L1/16F17 H04L1/16F9 H04L1/18R3B H04L1/18R5 H04L1/18R7 H04W36/00P6N H04W56/00K

US: 1/1 370/241 370/252 370/252P 370/281 370/329 370/329P 370/331 370/345 370/352 455/435.2 455/435.200P



Family:

Publication number	Publication date	Application number	Application date
CN102047747 A	20110504	CN200980119997	20090825
CN102047747 B	20140507	CN200980119997	20090825
CN102204338 A	20110928	CN200980143319	20091030
CN102204338 B	20140514	CN200980143319	20091030
CN103974409 A	20140806	CN201410140405	20090825
CN103974409 B	20171003	CN201410140405	20090825
DE602009030014 D.1	20150430	DE200960030014T	20090916
DK2166802 T3	20150608	DK20090170476T	20090916

EP2166802 A1	20100324	EP20090170476	20090916
EP2166802 B1	20150318	EP20090170476	20090916
EP2600666 A1	20130605	EP20130157004	20090916
EP2600666 B1	20181226	EP20130157004	20090916
GB200915137 A0	20091007	GB20090015137	20090828
GB201003825 A0	20100421	GB20100003825	20090828
GB2462011 A1	20100127	GB20090015137	20090828
GB2462011 B2	20110105	GB20090015137	20090828
GB2466399 A1	20100623	GB20100003825	20090828
GB2466399 B2	20110105	GB20100003825	20090828
KR100917832 B1	20090918	KR20090069217	20090729
KR101606205 B1	20160325	KR20090055580	20090622
KR101622219 B1	20160518	KR20090097050	20091013
KR20100023733 A	20100304	KR20090055580	20090622
KR20100049483 A	20100512	KR20090097050	20091013
US2010074202 AA	20100325	US20090557249	20090910
US2010130205 AA	20100527	US20090588929	20091102
US2011110263 AA	20110512	US20090003246	20090731
US2012275419 AA	20121101	US20120546679	20120711
US2013215855 AA	20130822	US20130860407	20130410
US2015373680 AA	20151224	US20150842677	20150901
US8243672 BB	20120814	US20090557249	20090910
US8432865 BB	20130430	US20120546679	20120711
US8503436 BB	20130806	US20090003246	20090731
US9144068 BB	20150922	US20130860407	20130410
US9155007 BB	20151006	US20090588929	20091102
WO10021465 A2	20100225	WO2009KR04279	20090731
WO10021465 A3	20100527	WO2009KR04279	20090731
WO10032924 A2	20100325	WO2009KR04728	20090825
WO10032924 A3	20100624	WO2009KR04728	20090825
WO10062043 A2	20100603	WO2009KR06327	20091030
WO10062043 A3	20100722	WO2009KR06327	20091030

Priority:

US20080090880P 20080821	US20080098727P 20080919	US20080099190P 20080922
US20080110955P 20081103	KR20090055580 20090622	KR20090069217 20090729
US20090003246 20090731	WO2009KR04279 20090731	CN200980119997 20090825
WO2009KR04728 20090825	GB20090015137 20090828	US20090557249 20090910
EP20090170476 20090916	KR20090097050 20091013	WO2009KR06327 20091030
US20090588929 20091102	US20120546679 20120711	US20130860407 20130410
US20150842677 20150901		

Probable Assignee: LG ELECTRONICS

Assignee(s): (std): CHUN SUNG DUCK ; JUNG SUNG HOON ; LEE SEUNG JUNE ; LEE YOUNG DAE ; LG ELECTRONICS ; LG ELECTRONICS INC ; PARK SUN JUNG ; PARK SUNG JUN ; YI SEUNG JUNE

Inventor(s): (std): YI SEUNG JUNE ; CHUN SUNG DUCK ; PARK SUNG JUN ; JEONG SEONG HOON ; LEE YOUNG DAE ; LEE SEUNG JUNE ; PARK SUN JUNG ; LEE YONG DAE ; JUNG SUNG HOON ; JUNG SEONG HOON ; HOON JUNG SUNG ; SUNG PARK JUN ; DAE LEE YOUNG ; JUNE YI SEUNG ; DUCK CHUN SUNG

Inventor(s): LEE YOUNG DAE 431 749 ; CHUN SUNG DUCK 431 749 ; YI SEUNG JUNE 431 749 ; PARK SUNG JUN 431 749 ; SUNG DUCK CHUN ; SUNG JUN PARK ; SEUNG JUNE YI ; YOUNG DAE LEE

Agent(s): CABINET PLASSERAUD; BIRCH STEWART KOLASCH AND BIRCH; MCKENNA LONG AND ALDRIDGE LLP; BIRCH STEWART KOLASCH AND BIRCH LLP; LEE HONG DEGERMAN KANG AND WAIMEY; YANG MOON OCK; KIM YONG IN ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

1) Family number: 52081346 (US2014016614A)

© PatBase

Title: SHORT MESSAGE TRANSMISSION AND HANDOVER PROCEDURES

Abstract: The present invention relates to an improved method for handover of a mobile node from E-UTRAN to UTRAN in a scenario where SMS is the only service of the mobile node. The improved handover method allows saving radio resources by establishing the signalling connection for SMS exchange in the target network, and avoiding the data connection in the target network, since it is not used. The MME takes the decision to establish or not the data connection in the target UTRAN, and accordingly instructs the SGSN and UE to set the corresponding PDP contexts for the data connection to a "preserved" state, so as to avoid the establishment of same. Embodiments further relate to improved SMS delivery for IDLE mode UEs that activate ISR so as to avoid the involvement of the MSC server. Instead, packet-switched domain nodes are to be involved only.

Classifications:

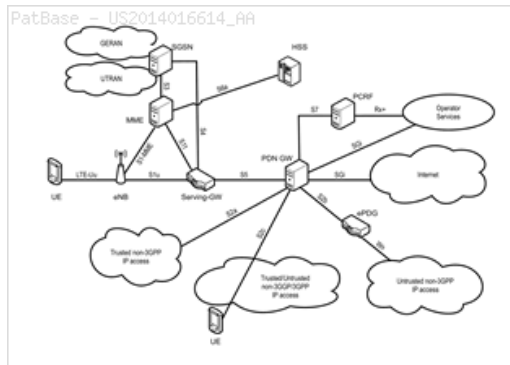
International (IPC 8-9): H04W36/14 H04W36/16 H04W4/00 H04W4/14 H04W4/50 H04W68/00 H04W72/04 H04W76/02 H04W76/04 H04W76/06 H04W76/10 H04W76/27 H04W92/02 (Advanced/Invention);

H04W36/00 H04W4/14 H04W68/00 H04W76/02 H04W76/06 H04W76/12 H04W76/38 (Advanced/Non-invention)

CPC: H04W36/165 H04W4/14 H04W36/14 H04W68/00 H04W68/005 H04W72/042 H04W36/0055 H04W4/70 H04W76/30 H04W76/38 H04W76/27 H04W76/10 H04W4/50 H04W76/12 H04W76/36

European: H04W36/14 H04W4/00M H04W4/14 H04W76/06T T04W68/00 T04W76/02 T04W76/06

US: 1/1 370/331



Family:

Publication number	Publication date	Application number	Application date
EP2509345 A1	20121010	EP20110002842	20110405
EP2509386 A1	20121010	EP20110171561	20110627
EP2683183 A1	20140108	EP20130184902	20120405
JP2014510496 T2	20140424	JP20140503031T	20120405
JP2016181929 A2	20161013	JP20160119552	20160616
JP2018207530 A2	20181227	JP20180165463	20180904
JP5956557 B2	20160727	JP20140503031T	20120405
JP6406529 B2	20181017	JP20160119552	20160616
US2014016614 AA	20140116	US20120978301	20120405
US2016127968 AA	20160505	US20160995978	20160114
US2018139671 AA	20180517	US20170855010	20171227
US9247471 BB	20160126	US20120978301	20120405
US9894579 BB	20180213	US20160995978	20160114
WO12136291 A2	20121011	WO2012EP00789	20120223
WO12136291 A3	20130228	WO2012EP00789	20120223
WO12136374 A2	20121011	WO2012EP01524	20120405
WO12136374 A3	20130321	WO2012EP01524	20120405

Priority:

EP20110002842	20110405	EP20110171561	20110627	WO2012EP00789	20120223
EP20120713604	20120405	EP20130184902	20120405	JP20140503031T	20120405
JP20160119552	20120405	WO2012EP01524	20120405	US20130978301	20130919
US20160995978	20160114	JP20160119552	20160616	US20170855010	20171227
JP20180165463	20180904				

Probable Assignee: SUN PATENT TRUST

Assignee(s): (std): BACHMANN JENS ; IKEDA SHINKICHI ; PANASONIC CORP ; VELEV GENADI ; PANASONIC IP CORP AMERICA ; SUN PATENT TRUST

Assignee(s): PANASONIC INTELLECTUAL PROPERTY CORP OF AMERICA ; PANASONIC INTELLECTUAL PROPERTY OF AMERICA CORP

Inventor(s): (std): IKEDA SHINKICHI ; BACHMANN JENS ; VELEV GENADI

Agent(s): GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER; PEARNE AND GORDON LLP; KUHL DIETMAR

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

2) Family number: 50951510 (US2013308527A)

© PatBase

Title: METHOD AND APPARATUS FOR RELEASING CONNECTION WITH LOCAL GW WHEN UE MOVES OUT OF THE RESIDENTIAL/ENTERPRISE NETWORK COVERAGE

Abstract: A method, system and device are provided for managing LIPA and/or SIPTO connection releases when UE moves out of residential/enterprise network coverage in case service continuity is not supported for the LIPA/SIPTO PDN connection(s). To address problems caused by not providing service continuity for LIPA/SIPTO PDN connections, the PDN connection/PDP context created in the HeNB/HNB by the MME/SGSN includes context information related to the UE indicating whether such connection is a LIPA PDN connection PDN connection or not. In addition, each UE may be configured to reconnect or not reconnect to the PDN corresponding to a certain APN or service, depending on how the PDN connection was disconnected by the network.

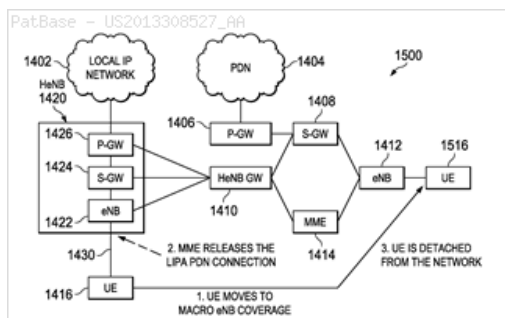
Classifications:

International (IPC 8-9): H04L29/12 H04W36/00 H04W36/16 H04W36/32 H04W36/38 H04W48/08 H04W64/00 H04W74/00 H04W76/06 H04W76/30 H04W8/04 (Advanced/Invention); H04W36/00 H04W48/08 H04W8/08 H04W84/04 H04W88/02 H04W88/16 (Advanced/Non-invention)

CPC: H04W8/082 H04W84/045 H04W36/32 H04L61/2007 H04W74/006 H04W64/003 H04W36/38 H04W8/04 H04W88/02 H04W88/16 H04W36/0022 H04W48/08 H04W76/30 H04W36/00 H04W76/06

European: H04W76/06 T04W36/00P2E T04W48/08 T04W8/08B T04W84/04C2

US: 1/1 370/328 370/331



Family:

Publication number	Publication date	Application number	Application date
CA2812944 AA	20130327	CA20112812944	20110927
CA2812944 C	20160920	CA20112812944	20110927
CN103229546 A	20130731	CN201180057173	20110927
CN103229546 B	20170215	CN201180057173	20110927
EP2622904 A1	20130807	EP20110767358	20110927
KR20130079564 A	20130710	KR20137010674	20110927
US2013308527 AA	20131121	US20110825996	20110927
US2016183156 AA	20160623	US20160055027	20160226
US2018310218 AA	20181025	US20180002974	20180607
US9301333 BB	20160329	US20110825996	20110927
US10098049 BB	20181009	US20160055027	20160226
WO12050841 A1	20120419	WO2011US53505	20110927

Priority:

US20100387297P 20100928 US20110825996 20110927 WO2011US53505 20110927
US20130825996 20130326 US20160055027 20160226 US20180002974 20180607

Probable Assignee: BLACKBERRY LTD

Assignee(s): (std): BLACKBERRY LTD ; CHIN CHEN HO ; CHOI NOUN ; FACCIN STEFANO ; RES IN MOTION UK LTD ; RESEARCH IN MOTION CORP ; RESEARCH IN MOTION UK LTD ; RESEARCH IN MOTION LTD

Inventor(s): (std): FACCIN STEFANO ; CHIN CHEN HO ; CHOI NOUN ; CHOI NO UN

Agent(s): RIDOUT AND MAYBEE LLP; HIBBERT JULIET JANE GRACE; TROP PRUNER AND HU PC; CANNATTI MICHAEL ROCCO

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

3) Family number: 52813548 (US2014219248A)

© PatBase

Title: SYSTEMS AND METHODS FOR ESTABLISHING AND MAINTAINING MULTIPLE CELLULAR CONNECTIONS AND/OR INTERFACES

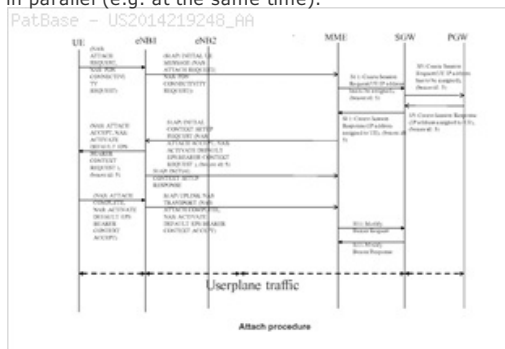
Abstract: Systems and methods for providing multiple connections or interfaces at the same time may be disclosed herein. For example, in an embodiment, a first RRC connection may be established between a wireless transmit and receive unit (WTRU) or user equipment (UE) and network node such as an eNB and a second RRC connection may be established between the WTRU or UE and the network node such as the eNB or another network node such as another eNB. The first RRC connection and the second RRC connections may then be maintained in parallel (e.g. at the same time).

Classifications:

International (IPC 8-9): H04W36/14 H04W76/02 H04W76/15 (Advanced/Invention); H04W36/00 H04W76/04 H04W76/22 (Advanced/Non-invention)

CPC: H04W36/14 H04W36/0027 H04W76/15 H04W76/22

US: 1/1 370/331



Family:

Publication number	Publication date	Application number	Application date
US2014219248 AA	20140807	US20120232195	20120711
US2018368038 AA	20181220	US20180909988	20180301
US9949189 BB	20180417	US20120232195	20120711
WO13009892 A1	20130117	WO2012US46283	20120711

US20110506635P 20110711
US20140232195 20140402

US20120232195 20120711
US20180909988 20180301

WO2012US46283 20120711

Probable Assignee: INTERDIGITAL PATENT HOLDINGS INC

Assignee(s): (std): CHITRAPU PRABHAKAR R ; INTERDIGITAL PATENT HOLDINGS ; INTERDIGITAL PATENT HOLDINGS INC
; REDDIBOYANA MURALI ; REZNIK ALEXANDER ; TOMICI JOHN L

Inventor(s): (std): REZNIK ALEXANDER ; REDDIBOYANA MURALI ; CHITRAPU PRABHAKAR R ; TOMICI JOHN L

Agent(s): CONDO ROCCIA KOPTIW LLP; ROCCIA VINCENT J ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU
CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL
IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW
MX MY NZ NA NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RA RW SC SD SE SG SI SK SL SM SN
ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

4) Family number: 54119623 (US2014341041A)

Title: DEVICE TRIGGERING AND APN-BASED CONGESTION CONTROL

Abstract: The present invention relates to device triggering in case of a congestion control. A triggering server transmits a device trigger request to a terminal over a communication network including a serving network node. The network node evaluates whether the connection can be established from the terminal to the server, including determining whether the network is congested and/or whether a back-off timer is running and/or the remaining time of the back-off timer at the terminal. Then the network node transmits a delivery delay indication to a device triggering control server to provide it with the delivery delay indication indicating at least one of impossibility of establishing the connection to the server after the trigger or a data transmission delay.

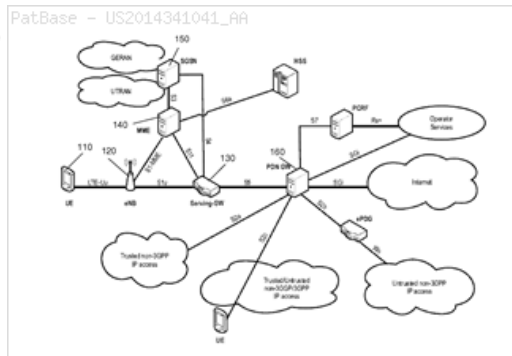
Classifications:

International (IPC 8-9): H04L12/70 H04L12/829 H04M3/00 H04Q3/00
H04W28/12 H04W4/00 H04W4/04 H04W76/02 H04W76/10

H04W84/18 (Advanced/Invention);

H04W28/02 (Advanced/Non-invention)

CPC: H04W28/12 H04Q3/0045 H04W28/0289 H04W4/70 H04W76/10
US: 1/1 370/236



Family:

Publication number	Publication date	Application number	Application date
DE602012047688 D1	20180712	DE201260047688T	20121126
EP2605606 A2	20130619	EP20120153129	20120130
EP2605606 A3	20161221	EP20120153129	20120130
EP2605606 B1	20190306	EP20120153129	20120130
EP2608567 A1	20130626	EP20110193341	20111213
EP2792159 A1	20141022	EP20120790574	20121126
EP2792159 B1	20180620	EP20120790574	20121126
JP2015511409 T2	20150416	JP20140546398T	20121126
JP6077561 B2	20170208	JP20140546398T	20121126
US2014341041 AA	20141120	US20120364606	20121126
US9648515 BB	20170509	US20120364606	20121126
WO13087403 A1	20130620	WO2012EP73630	20121126

Priority:

EP20110193341 20111213
EP20120790574 20121126

EP20120153129 20120130

WO2012EP73630 20121126

Probable Assignee: PANASONIC CORP

Assignee(s): (std): PANASONIC CORP ; PANASONIC INTELLECTUAL PROPERTY CORP OF AMERICA ; PANASONIC IP CORP AMERICA

Assignee(s): PANASONIC INTELLECTUAL PROPERTY OF AMERICA TORRANCE CORP ; PANASONIC INTELLECTUAL PROPERTY OF AMERICA CORP

Inventor(s): (std): VELEV GENADI ; ASO KEIGO ; BACHMANN JENS

Agent(s): GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAUESSER; GRUENECKER PATENT UND RECHTSANWAELTE PARTG MBB; SEED IP LAW GROUP LLP; KAYSER ANDREAS

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SZ SY TD TG TH TJ TM TN TR TT TZ UA UG US UZ VV VN ZA ZM ZW

5) Family number: 60178235 (US2016345210A)

Title: CIRCUIT SWITCHED FALLBACK

Abstract: Technology for facilitating circuit switched fallback (CSFB) for a user equipment (UE) is disclosed. A mobility management entity (MME) can receive an optimized CSFB capability indicator from the UE. The MME can receive a requested service type associated with the UE. The MME can initiate a single radio voice call continuity (SR-VCC) handover of the UE to

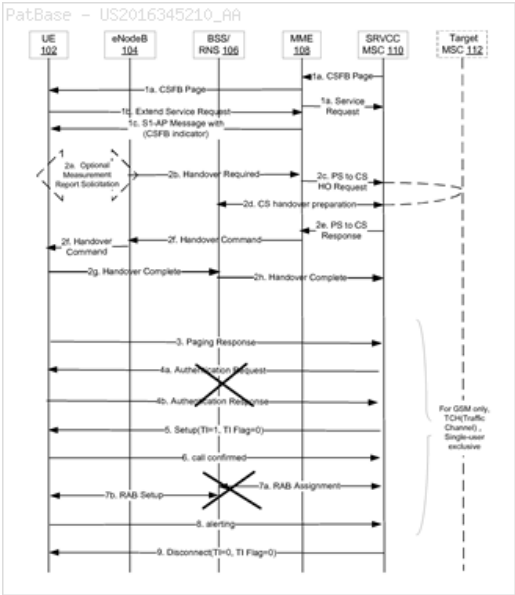
a circuit switched network based on the optimized CSFB capability of the UE. The MME can send an S1 application protocol (S1-AP) request message to an evolved node B (eNB). The S1AP message can include the optimized CSFB capability indicator and a single radio voice call continuity (SRVCC) indicator for the UE. The MME can receive a handover required message from the eNB.

Classifications:

International (IPC 8-9): H04L5/00 H04M3/00 H04W36/00 H04W36/12 H04W36/14 H04W36/16 H04W36/24 H04W36/38 H04W48/16 H04W48/18 H04W64/00 H04W68/12 H04W72/04 H04W8/04 H04W8/08 H04W8/24 H04W92/14 (Advanced/Invention); H04W8/24 H04W88/02 H04W88/08 H04W88/12 H04W88/14 (Advanced/Non-invention)

CPC: H04W36/14 H04W36/38 H04W48/16 H04W72/042 H04W72/0413 H04L5/0007 H04W64/003 H04W8/04 H04W88/02 H04W36/0022 H04W88/08 H04W88/12 H04W88/14 H04W8/24

US: 1/1 370/331



Family:

Publication number	Publication date	Application number	Application date
AU2015218697 AA	20160721	AU20150218697	20150223
AU2015218697 BB	20180301	AU20150218697	20150223
BR112016017052 A2	20170808	BR20161117052	20150223
CA2937915 AA	20160726	CA20152937915	20150223
DE602015015175 D1	20180920	DE201560015175T	20150223
EP3111699 A1	20170104	EP20150752557	20150223
EP3111699 A4	20170809	EP20150752557	20150223
EP3111699 B1	20180822	EP20150752557	20150223
ES2692343 T3	20181203	ES20150752557T	20150223
IN201647025241 A	20160831	IN201647025241	20160722
JP2017508363 T2	20170323	JP20160548078T	20150223
JP6388952 B2	20180912	JP20160548078T	20150223
KR20160106613 A	20160912	KR20167019855	20150223
RU2016130277 A	20180125	RU20160130277	20150223
RU2016130277 A3	20180125	RU20160130277	20150223
RU2646590 C2	20180306	RU20160130277	20150223
US2016345210 AA	20161124	US20150114718	20150223
US10299172 BB	20190521	US20150114718	20150223
WO15127384 A1	20150827	WO2015US17140	20150223

Priority:

US20140943966P 20140224 US20140943967P 20140224 US20140019304P 20140630
EP20150752557 20150223 RU20160130277 20150223 US20150114718 20150223
WO2015US17140 20150223

Probable Assignee: INTEL CORP

Assignee(s): (std): INTEL AJPI KORPOREJSHN ; INTEL CORP ; INTEL IP CORP ; PARRON JEROME ; SHAN CHANG HONG ; JAIN PUNEET K ; JAIN PUNEET ; SHAN CHANG

Assignee(s): INTEL IP SANTA CLARA CORP

Inventor(s): (std): SHAN CHAN KHUN ; PARRON ZHEROM ; DZHAIN PUNEET K ; JAIN PUNEET ; JAIN PUNEET K ; SHAN CHANG HONG ; PARRON JEROME

Inventor(s): SHAN CHANG HONG SANTA CLARA ; JAIN PUNEET K HILLSBORO ; CHANG HONG SHAN ; JEROME PARRON ; PUNEET K JAIN

Agent(s): FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; SMART AND BIGGAR; GODDAR HEINZ J; LEHMANN MARIA ISABEL; OHNUKI SHINSUKE; ITOH TADAHIKO; ITOH TADASHIGE; OOO SOYUZPATENT; THORPE NORTH AND WESTERN; HAYMOND ALEX W

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW