

PatBase - Search results 01 May 2018

Search query (8): FT=((subframe w10 trigger) and (reference signal* w10 subframe) and cqi and pmi and rank indicat* and subband and (report* w10 subframe) and downlink and carrier* and csi) and PD<20141120

Results: 11

Nicolas Vargas

Title: MULTIPLE CHANNEL STATE INFORMATION (CSI) REPORTING ON THE PHYSICAL UPLINK SHARED CHANNEL (PUSCH) WITH CARRIER AGGREGATION

Abstract: A method for reporting uplink control information (UCI) by a user equipment (UE) is described. It is determined that multiple channel state information (CSI) reports are scheduled on a physical uplink shared channel (PUSCH). An aggregated CSI report is generated using two or more of the multiple CSI reports. The aggregated CSI report is transmitted on the PUSCH.

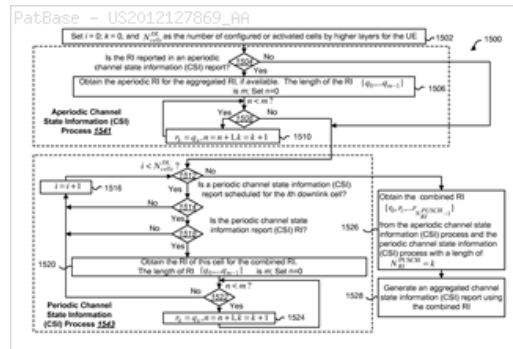
Classifications:

International (IPC 8-9): H04J1/00 H04J1/16 H04J11/00 H04J99/00
H04W24/10 H04W72/12 (Advanced/Invention)

CPC: H04L5/001 H04L5/0057 H04W24/10 H04W28/06 H04L1/0027
H04L1/1671 H04L1/1812 H04W8/24 H04L1/0031 H04B7/0417
H04B7/063 H04B7/0632 H04B7/0639 H04B7/0643 H04B7/0647

European: H04L1/00A9F7 H04L1/16F15 H04W28/06 H04W72/04F2
T04L1/00A9C T04L1/18D T04W24/10 T04W28/04 T04W8/24

US: 370/252 370/252P



Family:

Publication number	Publication date	Application number	Application date
JP2012114814 A2	20120614	JP20100263858	20101126
US2012127869 AA	20120524	US20100952114	20101122
WO12070672 A1	20120531	WO2011JP77287	20111121

Priority:

US20100952114 20101122 JP20100263858 20101126

Probable Assignee: SHARP KK

Assignee(s): (std): AIBA TATSUSHI ; CHOUDHURY SAYANTAN ; KHOSHNEVIS AHMAD ; KOWALSKI JOHN M ; NOGAMI TOSHIZO ; YAMADA SHOHEI ; SHARP KK ; YIN ZHANPING ; SHIMEZAWA KAZUYUKI ; SUZUKI SHOICHI ; SHARP LAB OF AMERICA INC

Assignee(s): SHARP KABUSHIKI KAISHA ; SHARP CORP ; SHARP LABORATORIES OF AMERICA INC

Inventor(s): (std): AIBA TATESHI ; AIBA TATSUSHI ; CHOUDHURY SAYANTAN ; KHOSHNEVIS AHMAD ; KOWALSKI JOHN M ; NOGAMI TOMOZO ; NOGAMI TOSHIZO ; SHIMEZAWA KAZUYUKI ; SHISAWA TOSHIYUKI ; SUZUKI SHOICHI ; YAMADA SHOHEI ; YIN ZHANPING

Agent(s): HARAKENZO WORLD PATENT AND TRADEMARK

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 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 PE PG PH PL PT QA RO RS RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TI TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: COMMUNICATING CHANNEL STATE INFORMATION (**CSI**) OF MULTIPLE TRANSMISSION POINTS

Abstract: Embodiments contemplate methods and systems for determining and communicating channel state information (**CSI**) for one or more transmission points (or **CSI** reference signal resources). Embodiments further contemplate determining transmission states may include applying at least one transmission state parameter to channel state information (**CSI**). Embodiments also contemplate reporting **CSI** based on the transmission state and/or at least one transmission state parameter applied thereto.

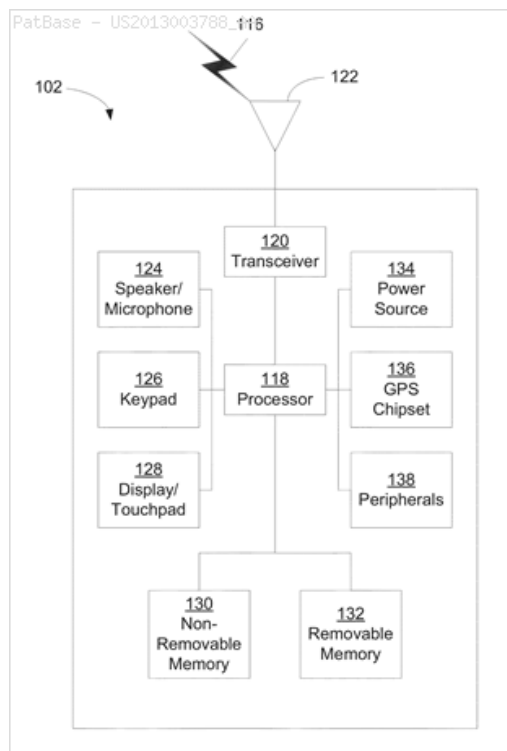
Classifications:

International (IPC 8-9): H04B1/38 H04B7/02 H04B7/06 H04L1/00 H04W24/10 H04W28/16 H04W72/04 H04W72/12 (Advanced/Invention)

CPC: H04B7/024 H04B7/0626 H04B7/0636

European: H04B7/02M1 H04B7/06C1F1C H04B7/06C1F3

US: 375/219



Family:

Publication number	Publication date	Application number	Application date
AU2012204223 AA	20120712	AU20120204223	20120106
AU2012204223 AH	20130905	AU20120204223	20120106
AU2015234324 AA	20151022	AU20150234324	20150930
AU2015234324 BB	20170629	AU20150234324	20150930
CN103299558 A	20130911	CN201280004841	20120106
CN103299558 B	20160706	CN201280004841	20120106
EP2661824 A2	20131113	EP20120701202	20120106
EP2738953 A1	20140604	EP20140156500	20120106
JP2014502129 T2	20140123	JP20130548579T	20120106
JP2017098997 A2	20170601	JP20170004481	20170113
JP6162045 B2	20170712	JP20130548579T	20120106
KR20140041422 A	20140404	KR20137020852	20120106
MX2013007898 A1	20131206	MX20130007898	20120106
TW201242291 A	20121016	TW20120100637	20120106
TWI548230 B	20160901	TW20120100637	20120106
US2013003788 AA	20130103	US20120345047	20120106
WO12094608 A2	20120712	WO2012US20508	20120106
WO12094608 A3	20120830	WO2012US20508	20120106

Priority:

US20110430741P 20110107	US20110441864P 20110211	US20110480675P 20110429
US20110523057P 20110812	US20110541205P 20110930	US20110545657P 20111011
US20110556025P 20111104	US20120583590P 20120105	AU20120204223 20120106
EP20120701202 20120106	JP20130548579T 20120106	US20120345047 20120106
WO2012US20508 20120106	AU20150234324 20150930	JP20170004481 20170113

Probable Assignee: INTERDIGITAL PATENT HOLDINGS INC

Assignee(s): (std): ZHANG GUODONG ; TOOHER J PATRICK ; TSAI ALLAN Y ; LI YAN ; PELLETIER GHYSLAIN ; PANI DIANA ; RUDOLF MARIAN ; MARINIER PAUL ; ADJAPLE PASCAL M ; CAVE CHRISTOPHER ; HAGHIGHAT AFSHIN ; INTERDIGITAL PATENT HOLDINGS ; INTERDIGITAL PATENT HOLDINGS INC

Assignee(s): TOOHER J

Inventor(s): (std): DIANA PANI ; GHYSLAIN PELLETIER ; AFSHIN HAGHIGHAT ; J PATRICK TOOHER ; PASCAL M ADJAPLE ; TSAI ALLAN ; ZHANG GUODONG ; TSAI ALLAN Y ; TOOHER J PATRICK ; RUDOLF MARIAN ; PELLETIER GHYSLAIN ; PAUL MARNIER ; PANI DIANA ; MARINIER PAUL ; LI YAN ; HAGHIGHAT AFSHIN ; CAVE CHRISTOPHER R ; CAVE CHRISTOPHER ; ADJAPLE PASCAL M ; ZHANG GUO DONG

Inventor(s): TOOHER J ; YAN LI ; PAUL MARINIER ; MARIAN RUDOLF ; ALLAN TSAI ; CHRISTOPHER CAVE ; GUODONG ZHANG ; J

Agent(s): SPRUSON AND FERGUSON; HANSSON ANDERS MAX; TANI AND ABE PC; ROCCIA VINCENT J

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 GR GT GW HN HR HU ID IE IL

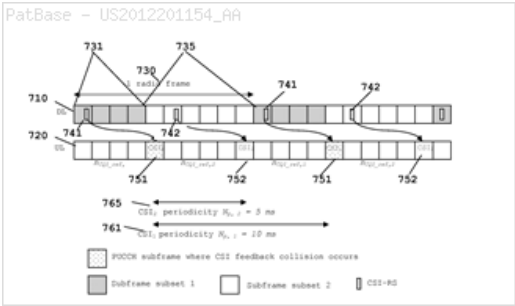
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SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: **CSI** MEASUREMENT, REPORTING AND COLLISION-HANDLING

Abstract: This invention sets conditions for user equipment responses to channel state indicator request in channel station information that may conflict.

Classifications:

International (ipc 8-9): H04B7/00 H04B7/06 H04L12/28 H04L12/66 H04L5/00 H04W24/02 H04W24/10 H04W4/00 H04W4/06 H04W72/08 (Advanced/Invention); H04W74/08 (Advanced/Non-invention)
CPC: H04L5/0057 H04W24/10 H04W74/0841 H04B7/0632
European: H04W24/10 T04W74/08D2
US: 370/252 370/252P 370/310 370/351 370/431 370/463



Family:

Publication number	Publication date	Application number	Application date
US2012201154 AA	20120809	US20120348174	20120111
US2014334325 AA	20141113	US20140313871	20140624
US2017188255 AA	20170629	US20170455640	20170310
US8761062 BB	20140624	US20120348174	20120111
US9603040 BB	20170321	US20140313871	20140624

Priority:

US20110431490P 20110111 US20110431655P 20110111 US20110432275P 20110113
US20110440444P 20110208 US20120348174 20120111 US20140313871 20140624
US20170455640 20170310

Probable Assignee: TEXAS INSTRUMENTS INC

Assignee(s): (std): CHANDRASEKHAR VIKRAM ; CHEN RUNHUA ; EKPENYONG ANTHONY ; TEXAS INSTRUMENTS INC

Inventor(s): (std): CHANDRASEKHAR VIKRAM ; CHEN RUNHUA ; EKPENYONG ANTHONY ; EKPENYONG ANTHONY EDET

Agent(s): RONALD O; FREDERICK J; WADE JAMES; FRANK D; CHARLES A

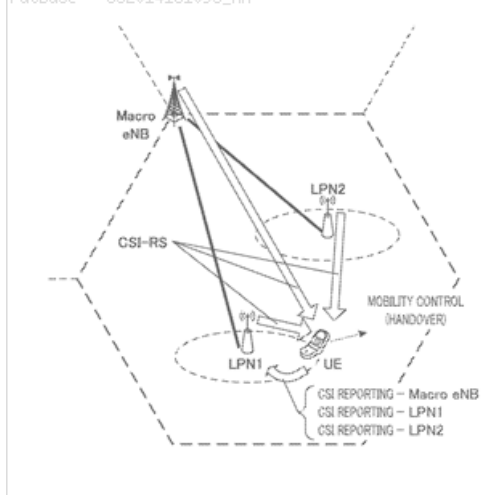
Title: TERMINAL, BASE STATION, TRANSMISSION METHOD AND RECEPTION METHOD

Abstract: The present invention is a terminal capable of suppressing increase in transmit power required for transmitting a **CSI** report at a terminal while widely securing candidates for motion control. A reception processing unit (203) receives multiple reference signals from multiple transmission points, first information indicating the multiple transmission points, and second information indicating at least one transmission point included in the multiple transmission points; a **CSI** generation unit (206), on the basis of the first information, generates first channel information including channel information corresponding to each of the multiple reference signals from the multiple transmission points, and on the basis of the second information, generates second channel information including channel information corresponding to the reference signals from the at least one of the transmission points; and a transmission signal formation unit (208) transmits the first channel information and the second channel information which have been generated.

Classifications:

International (IPC 8-9): H04B7/02 H04B7/06 H04J99/00 H04L12/26
H04L5/00 H04W16/28 H04W16/32 H04W24/10 H04W28/16
H04W36/04 H04W52/10 H04W52/24 (Advanced/Invention);
H04L1/00 H04L1/16 H04W52/14 H04W52/24 (Advanced/Non-invention)
CPC: H04L5/0053 H04W24/10 H04B7/024 H04B7/0626 H04L1/0003
H04L1/0009 H04L1/0026 H04L1/0031 H04L1/1671 H04L5/0035
H04W52/146 H04W52/247
US: 1/1 370/328 370/329

PatBase - US2014161093_AA



Family:

Publication number	Publication date	Application number	Application date
EP2741539 A1	20140611	EP20120821733	20120723
EP2741539 A4	20150527	EP20120821733	20120723
JP2013021556 A1	20150305	JP20130527855T	20120723
JP6007179 B1	20161012	JP20130527855T	20120723
US2014161093 AA	20140612	US20120237056	20120723
US9325475 BB	20160426	US20120237056	20120723
WO13021556 A1	20130214	WO2012JP04652	20120723

Priority:

JP20110171711 20110805 JP20110217279 20110930 WO2012JP04652 20120723

Probable Assignee: PANASONIC CORP

Assignee(s): (std): HOSHINO MASAYUKI ; NISHIO AKIHIKO ; PANASONIC CORP ; PANASONIC IP CORP AMERICA ; SUZUKI HIDETOSHI ; TAMURA TAKASHI

Assignee(s): PANASONIC INTELLECTUAL PROPERTY OF AMERICA CORP

Inventor(s): (std): HOSHINO MASAYUKI ; NISHIO AKIHIKO ; SUZUKI HIDETOSHI ; TAMURA TAKASHI

Agent(s): GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAUEUSSER; PEARNE AND GORDON LLP; WASHIDA KIMIHIITO

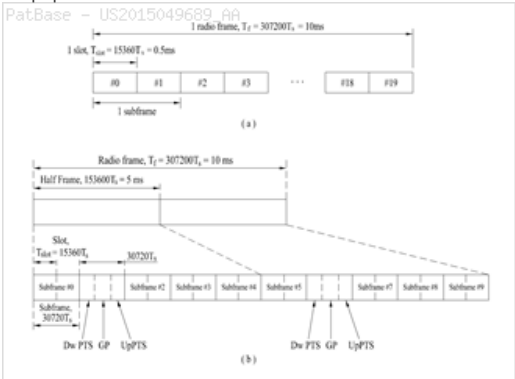
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Title: METHOD FOR TRANSMITTING CHANNEL STATE INFORMATION REPORT AND USER EQUIPMENT, AND METHOD FOR RECEIVING CHANNEL STATE INFORMATION REPORT AND BASE STATION

Abstract: The user equipment and the base station according to the present invention determine differently whether a **downlink** subframe is a valid reference resource for a channel state information report, in accordance with whether an interference measurement resource is explicitly configured to the user equipment.

Classifications:

International (IPC 8-9): H04B7/26 H04J11/00 H04L27/26
H04L5/00 (Advanced/Invention)
CPC: H04L5/0023 H04L5/0035 H04L5/0057 H04L5/0073 H04L5/0078
H04L5/0053 H04L27/2601 H04L5/005
US: 370/329



Family:

Publication number	Publication date	Application number	Application date
US2015049689 AA	20150219	US20130381517	20130227
WO13129843 A1	20130906	WO2013KR01589	20130227

Priority:

US20120604475P 20120228 US20120621000P 20120406 WO2013KR01589 20130227
US20130381517 20130227

Probable Assignee: LG ELECTRONICS INC

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

Inventor(s): (std): SEO HANBYUL

Agent(s): KIM YONG IN ET AL

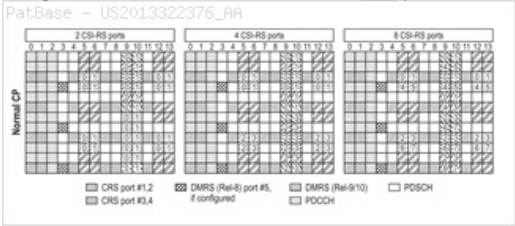
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW 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

Title: COMMUNICATING CHANNEL STATE INFORMATION (CSI) OF MULTIPLE TRANSMISSION POINTS

Abstract: Embodiments contemplate methods and systems for determining and communicating channel state information (CSI) for one or more transmission points (or CSI reference signal resources). Embodiments further contemplate determining transmission states may include applying at least one CSI process for channel state information (CSI) reporting. Embodiments also contemplate aperiodic and/or periodic reporting of one or more report types (e.g., Rank Indicator (RI)) of CSI, perhaps based on one or more reporting modes that may be configured for each of the one or more CSI process.

Classifications:

International (IPC 8-9): H04B17/24 H04B7/02 H04B7/024 H04B7/06 H04B7/26 H04L1/00 H04L5/00 H04W24/10 H04W72/04 H04W72/06 (Advanced/Invention); H04B7/02 H04B7/04 H04B7/06 (Advanced/Non-invention) CPC: H04W72/06 H04B7/0626 H04B7/0647 H04L1/0026 H04L1/0027 H04L5/0035 H04L5/0057 H04W24/10 H04B17/24 H04B7/2612 H04B7/024 H04B7/0456 H04B7/0617 H04W72/0413 US: 370/329



Family:

Publication number	Publication date	Application number	Application date
CN104584450 A	20150429	CN201380029606	20130604
CN104584450 B	20180126	CN201380029606	20130604
EP2856661 A2	20150408	EP20130728915	20130604
JP2015523013 T2	20150806	JP20150516101T	20130604
KR101647007 B1	20160810	KR20157000074	20130604
KR20150027194 A	20150311	KR20157000074	20130604
KR20160007686 A	20160120	KR20167000092	20130604
TW201415828 A	20140416	TW20130119729	20130604
US2013322376 AA	20131205	US20130909242	20130604
US2017238323 AA	20170817	US20160387703	20161222
US9532362 BB	20161227	US20130909242	20130604
WO13184613 A2	20131212	WO2013US43976	20130604
WO13184613 A3	20140313	WO2013US43976	20130604

Priority:

US20120655359P 20120604 US20120678559P 20120801 US20130909242 20130604
WO2013US43976 20130604 US20160387703 20161222

Probable Assignee: INTERDIGITAL PATENT HOLDINGS INC

Assignee(s): (std): INTERDIGITAL PATENT HOLDINGS ; INTERDIGITAL PATENT HOLDINGS INC

Inventor(s): (std): MARINIER PAUL ; PANI DIANA ; RUDOLF MARIAN ; TOOHER J PATRICK

Inventor(s): TOOHER J

Agent(s): BADEL XAVIER CLAUDE YVES; TANI AND ABE PC; CONDO ROCCIA KOPTIW LLP; ROCCIA VINCENT J ET AL

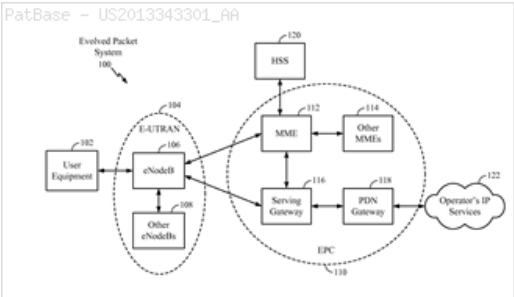
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX 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 SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: TECHNIQUES FOR JOINT SUPPORT OF COORDINATED MULTIPOINT (COMP) OPERATIONS AND **CARRIER** AGGREGATION (CA)

Abstract: Certain aspects of the present disclosure provide methods and apparatus for joint support of coordinated multipoint (CoMP) operations and **carrier** aggregation (CA). One method generally includes receiving signaling indicating a configuration, from a set of possible configurations, that defines how the UE is to communicate with one or more base stations (BSs) using coordinated multipoint (CoMP) operations on one or more component **carriers** (CCs) and communicating in accordance with the configuration.

Classifications:

International (IPC 8-9): H04B7/02 H04B7/024 H04J11/00 H04L5/00 H04W24/10 H04W28/16 H04W4/00 H04W72/04 (Advanced/Invention); H04L25/02 H04L25/03 (Advanced/Non-invention)
CPC: H04B7/024 H04L5/001 H04L5/0035 H04L5/0057 H04L25/0224 H04L25/03891
US: 370/329



Family:

Publication number	Publication date	Application number	Application date
CN104365054 A	20150218	CN201380031487	20130621
JP2015525031 T2	20150827	JP20150518595T	20130621
JP2017229082 A2	20171228	JP20170154483	20170809
US2013343301 AA	20131226	US20130923067	20130620
US9755706 BB	20170905	US20130923067	20130620
WO13192482 A1	20131227	WO2013US46951	20130621

Priority:

US20120663406P 20120622	US20120706373P 20120927	US20130923067 20130620
JP20150518595T 20130621	WO2013US46951 20130621	JP20170154483 20170809

Probable Assignee: QUALCOMM INC

Assignee(s): (std): QUALCOMM INC

Assignee(s): QUALCOMM INCORPORATED

Inventor(s): (std): CHEN WANSHI ; GAAL PETER ; GEIRHOFER STEFAN ; XU HAO ; WANSI CHEN ; STEFAN GEIRHOFER ; PETER GAHL

Agent(s): PATTERSON AND SHERIDAN LLP; READ RANDOL W 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 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 SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: METHOD AND APPARATUS FOR SOUNDING REFERENCE SIGNAL TRIGGERING AND POWER CONTROL FOR COORDINATED MULTI-POINT OPERATIONS

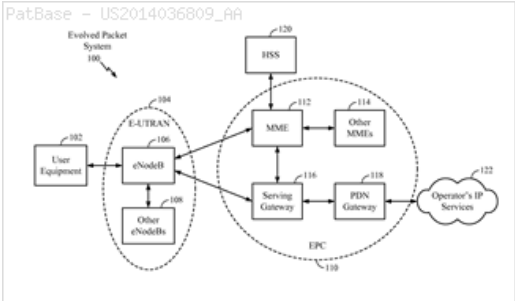
Abstract: Certain aspects of the present disclosure provide methods and apparatus for sounding reference signal (SRS) triggering and power control for coordinated multi-point (CoMP) operations. One method generally includes maintaining separate power control processes for at least a first aperiodic SRS (A-SRS) and a second A-SRS, receiving, in a first subframe, a downlink transmission triggering transmission of at least one of the first and second A-SRS in a subsequent subframe, identifying which of the first and second A-SRS to transmit in the subsequent subframe, receiving a first power control command that indicates a power control value to apply to the identified A-SRS, and transmitting the identified A-SRS based in accordance with the first power control command.

Classifications:

International (IPC 8-9): H04W52/32 H04W52/54 (Advanced/Invention)

CPC: H04W52/54 H04W52/322 H04W52/325

US: 370/329



Family:

Publication number	Publication date	Application number	Application date
CN104620645 A	20150513	CN201380039849	20130802
EP2880923 A1	20150610	EP20130752722	20130802
EP2880923 B1	20180404	EP20130752722	20130802
IN02583MN2014 A	20150724	IN2014MN02583	20141219
US2014036809 AA	20140206	US20130956829	20130801
WO14022747 A1	20140206	WO2013US53364	20130802

Priority:

US20120679596P 20120803 US20130956829 20130801 WO2013US53364 20130802

Probable Assignee: QUALCOMM INC

Assignee(s): (std): QUALCOMM INC

Inventor(s): (std): CHEN WANSHI ; GAAL PETER ; XU HAO

Agent(s): WEGNER HANS; READ RANDOL W ET AL

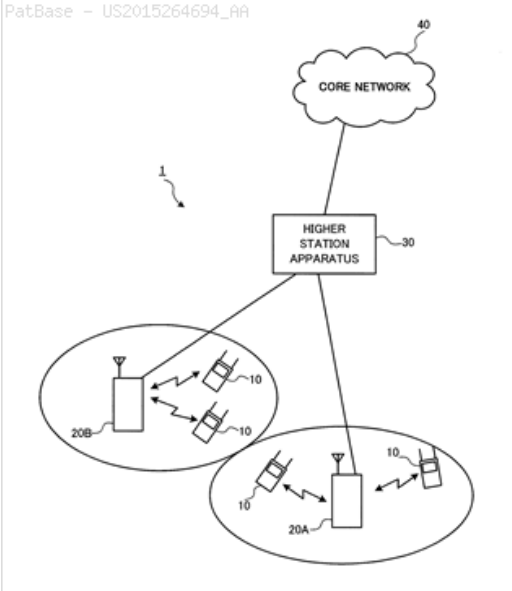
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW 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

Title: RADIO COMMUNICATION SYSTEM, BASE STATION APPARATUS, USER TERMINAL AND RADIO COMMUNICATION METHOD

Abstract: The present invention is designed to provide a radio communication system, a base station apparatus, a user terminal and a radio communication method, whereby, when a plurality of kinds of CSI processes are configured, it is possible to lighten the processing load, and, furthermore, reduce the deterioration of throughput performance. The radio communication method of the present invention includes a plurality of base station apparatuses that transmit CSI-RSs for measuring CSI and a user terminal that communicates with the plurality of base station apparatuses, and, when a plurality of CSI processes, which are combinations of SMRs and IMRs, are configured, in each of the base station apparatuses, a CSI process for requesting CSI with a nearest CSI reference resource in a subframe of the subframe number N-4 or an earlier subframe is configured, and in the user terminal, the CSI process configured in each of the base station apparatuses is determined, and, the CSI feedback process is performed based on the determination.

Classifications:

International (IPC 8-9): H04L1/00 H04L25/02 H04L5/00 H04W24/10 H04W28/16 H04W72/04 H04W72/08 H04W72/12 (Advanced/Invention)
CPC: H04W72/082 H04W28/16 H04L5/0035 H04W24/10 H04L1/0026 H04L5/001 H04L25/0224
US: 370/329



Family:

Publication number	Publication date	Application number	Application date
CN104704873 A	20150610	CN201380052063	20130819
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WO14054344 A1	20140410	WO2013JP72097	20130819

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JP20120221586 20121003 WO2013JP72097 20130819

Probable Assignee: NTT DOCOMO INC

Assignee(s): (std): NTT DOCOMO INC

Assignee(s): N A

Inventor(s): (std): KISHIYAMA YOSHIHISA ; NAGATA SATOSHI

Agent(s): HOFFMANN EITLE; OSHA LIANG LLP; AOKI HIROYOSHI 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 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

Title: METHODS AND APPARATUS FOR VERTICAL BEAMFORMING

Abstract: A method and apparatus for determining a vertical beam for reception are disclosed herein. A method in a wireless transmit/receive unit (WTRU) includes receiving a broadcast message from an evolved Node B (eNB) that includes information associated with a plurality of vertical beams, wherein the information includes at least one set of Physical Random Access Control Channel (PRACH) resources associated with each of the plurality of vertical beams, measuring reference signals transmitted on each of the plurality of vertical beams to select a reception vertical beam, transmitting a PRACH preamble in a set of resources associated with the selected reception vertical beam, and receiving communications from the eNB using the selected reception vertical beam.

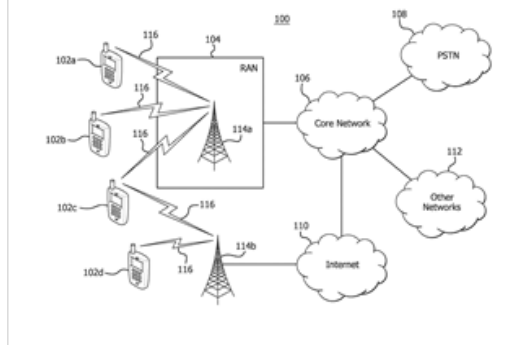
Classifications:

International (IPC 8-9): H04B1/38 H04B7/04 H04B7/0417 H04B7/06 H04B7/08 H04L29/02 H04L5/00 H04W16/28 H04W24/10 H04W74/08 (Advanced/Invention)

CPC: H04W16/28 H04W74/0833 H04W24/10 H04L5/0048 H04B7/0617 H04B7/0626 H04B7/088 H04B7/0417 H04B7/061 H04B7/086 H04W52/365

US: 370/329

PatBase - US2015382205_AA



Family:

Publication number	Publication date	Application number	Application date
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US2017359734 AA	20171214	US20170669291	20170804
WO14116928 A1	20140731	WO2014US12914	20140124

Priority:

US20130756792P 20130125 US20140763113 20140124 WO2014US12914 20140124
US20150763113 20150723 US20170669291 20170804

Probable Assignee: INTERDIGITAL PATENT HOLDINGS

Assignee(s): (std): INTERDIGITAL PATENT HOLDINGS ; INTERDIGITAL PATENT HOLDINGS INC

Inventor(s): (std): COMSA VIRGIL ; JIANG MEILONG ; LEE MOON IL ; STERN BERKOWITZ JANET A ; JIANG MEI LONG

Agent(s): FORSBLOM MATTIAS HENRIK ; THOMPSON MELISSA B

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

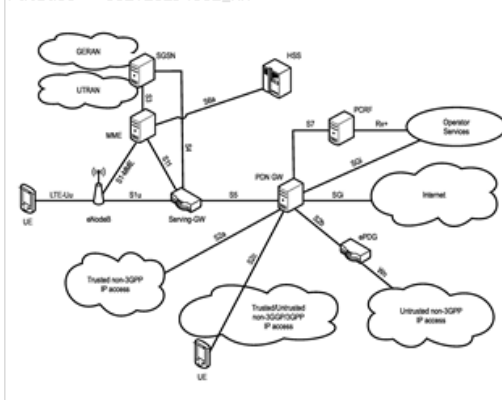
Title: DETERMINISTIC UE BEHAVIOUR FOR **CSI**/SRS REPORTING DURING DRX

Abstract: The invention relates to a method for transmitting a periodic channel quality report (**CSI**) and/or a sounding reference symbol (SRS) from a UE to an e Node B. To avoid double decoding at the e Node B in transient phases, a deterministic behavior of the UE is defined by the invention, according to which the e Node B can unambiguously determine whether the UE will transmit the **CSI**/SRS or not. According to one embodiment, the UL grants and/or DL assignments received until and including subframe N-4 only are considered; UL grants and/or DL assignments received by the UE after subframe N-4 are discarded for the determination. Additionally, DRX-related timers at subframe N-4 are considered for the determination. In a second embodiment, DRX MAC control elements from the e Node B, instructing the UE to enter DRX, i.e. become Non-Active, are only considered for the determination if they are received before subframe N-4, i.e. until and including subframe N-(4+k).

Classifications:

International (IPC 8-9): H04J1/00 H04J11/00 H04J99/00 H04L1/00 H04L5/00 H04W H04W24/10 H04W4/00 H04W52/02 H04W72/04 H04W76/04 H04W76/20 H04W88/02 (Advanced/Invention); H04L5/00 H04W76/04 H04W88/02 (Advanced/Non-invention)
CPC: H04W72/042 H04W72/0446 H04L5/0057 H04L5/0051 H04W72/0413 H04W76/28
US: 370/329

PatBase - US2016294531_AA



Family:

Publication number	Publication date	Application number	Application date
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Priority:

EP20130160199 20130320 EP20130801555 20131204 WO2013EP75499 20131204
 US20150777721 20150916 US20170594424 20170512 US20170798127 20171030

Probable Assignee: SUN PATENT TRUST

Assignee(s): (std): PANASONIC INTELLECTUAL PROPERTY CORP OF AMERICA ; PANASONIC IP CORP AMERICA ; SUN PATENT TRUST ; SAN PETENT TRAST

Assignee(s): SUN PATENT TRUST NEW YORK ; SUZUKI HIDETOSHI ; PANASONIC INTELLECTUAL PROPERTY OF AMERICA CORP ; BASU MALLICK PRATEEK ; LOEHR JOACHIM

Inventor(s): (std): BASU MALLICK PRATEEK ; BASU MALLIK PRATIK ; HIDETOSHI SUZUKI ; JOACHIM LOEHR ; LER JOAKHIM ; LOEHR JOACHIM ; MALLICK PRATEEK BASU ; PRATEEK BASU MALLICK ; SUZUKI HIDETOSHI ; SUZUKI KHIDETOSI

Agent(s): GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAUESSER; GRUENECKER PATENT U RECHTSANWAELTE PARTG MBB; GRUENECKER PATENT U RECHTSANWAELTE PARTG MBB; CARPINTERO MARIO; OOO YURIDICHESKAYA GORODISSKIY I PARTNERY FA; FULYA SUEMERALP; SEED IP LAW GROUP LLP; KUHLE DIETMAR

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