

Search history

Search PN=(WO2016022765) (Results 1)

1:

Search [SP]: linked narrowband operation for mtc methods, systems, and devices are described for wireless communication at a ue. a user equipment (ue) may receive a control signal from a base station on resources of a first narrowband region. the ue may then identify a second narrowband region based on the control signal. in some cases a broadband carrier may be divided into an indexed set of narrowband regions, and the ue may identify an index using information contained in (implicitly or explicitly) in the control signal. the ue may communicate with the base station on resources of the second narrowband region. for example, a ue may receive a system information block (sib) or a paging message, and perform a random access procedure using narrowband resources selected based on the sib or paging message. (Results 0)

Search [SP]: 1. a method of wireless communication at a user equipment (ue), comprising: receiving a control signal from a base station on resources of a first narrowband region; identifying a second narrowband region based at least in part on the control signal, wherein the first narrowband region is different from the second narrowband region and transmitting a random access channel (rach) preamble to the base station on resources of the second narrowband region. 2. the method of claim 1, further comprising: determining the second narrowband region from an explicit indication in the control signal. 3. the method of claim 1, further comprising: determining a set of available configurations of narrowband regions based on the control signal and selecting the second narrowband region based on the set of available configurations. 4. the method of claim 1, further comprising: determining the second narrowband region according to a configuration known a priori to the ue. 5. the method of claim 1, further comprising: identifying a third narrowband region linked to the second narrowband region and receiving a rach response message from the base station on resources of the third narrowband region. 6. the method of claim 1, wherein the transmitting comprises: transmitting a connection request on resources of the second narrowband region. 7. the method of claim 6, further comprising: identifying a third narrowband region linked to the second narrowband region and receiving a connection setup message on resources of the third narrowband region. 8. the method of claim 1, wherein the control signal comprises at least one of a synchronization signal, a physical broadcast channel (pbch) transmission, a paging message, a physical downlink control channel (pdch), or a system information block (sib), or any combination thereof. 9. the method of claim 1, wherein the control signal comprises a paging message. 10. the method of claim 1, further comprising: receiving a paging message on resources of a third narrowband region, wherein the control signal comprises at least one of a synchronization signal, a physical broadcast channel (pbch) transmission, or a physical downlink control channel (pdch), or a system information block (sib), or any combination thereof. 11. the method of claim 10, further comprising: identifying the third narrowband region based on a group identity of the ue. 12. the method of claim 10, further comprising: identifying the third narrowband region based on the control signal. 13. the method of claim 10, further comprising: identifying the third narrowband region based on a configuration known a priori to the ue. 14. an apparatus for wireless communication at a user equipment (ue), comprising: a processor; memory in electronic communication with the processor and instructions stored in the memory, wherein the instructions are executable by the processor to cause the apparatus to: receive a control signal from a base station on resources of a first narrowband region; identify a second narrowband region based at least in part on the control signal, wherein the first narrowband region is different from the second narrowband region and transmit a random access channel (rach) preamble to the base station on resources of the second narrowband region. 15. the apparatus of claim 14, wherein the instructions are executable by the processor to cause the apparatus to: determine the second narrowband region from an explicit indication in the control signal. 16. the apparatus of claim 14, wherein the instructions are executable by the processor to cause the apparatus to: determine a set of available configurations of narrowband regions based on the control signal and select the second narrowband region based on the set of available configurations. 17. the apparatus of claim 14, wherein the instructions are executable by the processor to cause the apparatus to: determine the second narrowband region according to a configuration known a priori to the ue. 18. the apparatus of claim 14, wherein the instructions are executable by the processor to cause the apparatus to: identify a third narrowband region linked to the second narrowband region and receive a rach response message from the base station on resources of the third narrowband region. 19. the apparatus of claim 14, wherein the instructions are executable by the processor to cause the apparatus to: transmit a connection request on resources of the second narrowband region. 20. the apparatus of claim 19, wherein the instructions are executable by the processor to cause the apparatus to: identify a third narrowband region linked to the second narrowband region and receive a connection setup message on resources of the third narrowband region. 21. the apparatus of claim 14, wherein the control signal comprises a synchronization signal, a physical broadcast channel (pbch) transmission, a paging message, a physical downlink control channel (pdch), or a system information block (sib), or any combination thereof. 22. the apparatus of claim 14, wherein the control signal comprises a paging message. 23. the apparatus of claim 14, wherein the instructions are executable by the processor to cause the apparatus to: receive a paging message on resources of a third narrowband region, wherein the control signal comprises a synchronization signal, a physical broadcast channel (pbch) transmission, a physical downlink control channel (pdch) or a system information block (sib), or any combination thereof. 24. the apparatus of claim 23, wherein the instructions are executable by the processor to cause the apparatus to: identify the third narrowband region based on a group identity of the ue. 25. the apparatus of claim 23, wherein the instructions are executable by the processor to cause the apparatus to: identify the third narrowband region based on the control signal. 26. the apparatus of claim 23, wherein the instructions are executable by the processor to cause the apparatus to: identify the third narrowband region based on a configuration known a priori to the ue. 27. an apparatus for wireless communication at a user equipment (ue), comprising: means for receiving a control signal from a base station on resources of a first narrowband region; means for identifying a second narrowband region based at least in part on the control signal, wherein the first narrowband region is different from the second narrowband region and means for transmitting a random access channel (rach) preamble to the base station on resources of the second narrowband region. 28. a non-transitory computer-readable medium storing code for wireless communication at a user equipment (ue), the code comprising instructions executable by a processor to: receive a control signal from a base station on resources of a first narrowband region; identify a second narrowband region based at least in part on the control signal, wherein the first narrowband region is different from the second narrowband region and transmit a random access channel (rach) preamble to the base station on resources of the second narrowband region. (Results 0)

Search [SP]: cross reference the present application for patent claims priority to u.s. provisional patent application no. 62/034,104 by xu et al., entitled "linked narrowband operation for mtc," filed aug. 6, 2014, assigned to the assignee hereof, and expressly incorporated by reference herein. background the following relates generally to wireless communication, and more specifically to linked narrowband operation for machine type communication (mtc). description of related art wireless communications systems are widely deployed to provide various types of communication content such as voice, video, packet data, messaging, broadcast, and so on. these systems may be multiple-access systems capable of supporting communication with multiple users by sharing the available system resources (e.g., time, frequency, and power). examples of such multiple-access systems include code division multiple access (cdma) systems, time division multiple access (tdma) systems, frequency division multiple access (fdma) systems, and orthogonal frequency division multiple access (ofdma) systems (e.g., a long term evolution (lte) system). by way of example, a wireless multiple-access communications system may include a number of base stations, each simultaneously supporting communication for multiple communication devices, which may be otherwise known as user equipments (ues). a base station may communicate with ues on downlink channels (e.g., for transmissions from a base station to a ue) and uplink channels (e.g., for transmissions from a ue to a base station). some types of wireless devices may provide for automated communication. automated wireless devices may include those implementing machine-to-machine (m2m) communication or machine type communication (mtc). m2m or mtc may refer to data communication technologies that allow devices to communicate with one another or a base station without human intervention. for example, m2m or mtc may refer to communications from devices that integrate sensors or meters to measure or capture information and relay that information to a central server or application program that can make use of the information or present the information to humans interacting with the program or application. in some cases, communicating over a broad frequency range may consume a large amount of power relative to the capabilities of an mtc device. that is, mtc devices may be small, low cost, or low complexity devices. furthermore, mtc devices may be designed to operate on battery power for a long period of time relative to other ues on a wireless network. therefore, continuous broadband operation may hinder the successful operation of some mtc devices or reduce the usability of the wireless network for some applications. summary the present disclosure relates generally to wireless communication systems, and more particularly to systems, methods, and apparatuses for linked narrowband operation for machine type communication (mtc). a user equipment (ue) may receive a control signal from a base station on resources of a first narrowband region. the ue may then identify a second narrowband region based on the control signal. in some cases, a broadband carrier may be divided into an indexed set of narrowband regions, and the ue may identify an index using information contained (implicitly or explicitly) in the control signal. the ue may communicate with the base station on resources of the second narrowband region. for example, a ue may receive a system information block (sib) or a paging message, and perform a random access procedure using narrowband resources selected based on the sib or paging message. a method of linked narrowband operation for mtc is

described. the method may include receiving a control signal from a base station on resources of a first narrowband region, identifying a second narrowband region based at least in part on the control signal, and communicating with the base station on resources of the second narrowband region. an apparatus for linked narrowband operation for mtc is described. the apparatus may include means for receiving a control signal from a base station on resources of a first narrowband region, means for identifying a second narrowband region based at least in part on the control signal, and means for communicating with the base station on resources of the second narrowband region. a further apparatus for linked narrowband operation for mtc is also described. the code may include instructions executable by a processor to receive a control signal from a base station on resources of a first narrowband region, identify a second narrowband region based at least in part on the control signal, and communicate with the base station on resources of the second narrowband region. some examples of the method, apparatuses, or non-transitory computer-readable medium described above may further include features of, means for, or processor-executable instructions for determining the second narrowband region from an explicit indication in the control signal. some examples may include determining a set of available configurations of narrowband regions based on the control signal, and selecting the second narrowband region based on the set of available configurations. some examples of the method, apparatuses, or non-transitory computer-readable medium described above may further include features of, means for, or processor-executable instructions for determining the second narrowband region according to a configuration known a priori to the ue. in some examples, communicating comprises transmitting a random access channel (rach) preamble. some examples of the method, apparatuses, or non-transitory computer-readable medium described above may further include features of, means for, or processor-executable instructions for identifying a third narrowband region linked to the second narrowband region, and receiving a rach response message from the base station on resources of the third narrowband region. in some examples, communicating comprises transmitting a connection request on resources of the second narrowband region. some examples of the method, apparatuses, or non-transitory computer-readable medium described above may further include features of, means for, or processor-executable instructions for identifying a third narrowband region linked to the second narrowband region, and receiving a connection setup message on resources of the third narrowband region. in some examples, the first control signal comprises a synchronization signal, a physical broadcast channel (pbch) transmission, a paging message, or a system information block (sib). in some examples of the method, apparatuses, or non-transitory computer-readable medium described above the control signal includes a paging message, and the communicating includes transmitting a rach preamble on the resources of the second narrowband region. some examples may include receiving a paging message on resources of a third narrowband region, where the control signal comprises a synchronization signal, a pbch transmission, or a sib, and the communicating comprises transmitting a rach preamble. some examples of the method, apparatuses, or non-transitory computer-readable medium described above may further include features of, means for, or processor-executable instructions for identifying the third narrowband region based on a group identity of the ue. some examples may include identifying the third narrowband region based on the control signal. some examples of the method, apparatuses, or non-transitory computer-readable medium described above may further include features of, means for, or processor-executable instructions for receiving a configuration for the mtc sib via an enhanced physical downlink control channel (epdch). in some examples, the identification of the second narrowband region is based on a low power operational mode. a further method of linked narrowband operation for mtc is described. the method may include receiving a control signal from a base station, determining a carrier bandwidth based on the control signal, and identifying a data region based on the carrier bandwidth. a further apparatus for linked narrowband operation for mtc is described. the apparatus may include means for receiving a control signal from a base station, means for determining a carrier bandwidth based on the control signal, and means for identifying a data region based on the carrier bandwidth. a further apparatus for linked narrowband operation for mtc is described. the apparatus may (Results 0)

Search wireless and method* and communication and (UNB or narrow band) (Results 12887)

5:

Search 5 and RACH (Results 391)

6:

Search 6 and (MTM or M2M) (Results 70)

7:

Search 7 and (PBCH or PDCCH or SIB or paging message*) (Results 60)

8:

Search 8 and (PD<20140806 or PRD<20140806) (Results 25)

9:

Title: CIRCUIT AND **METHOD** FOR MEASURING JITTER OF HIGH SPEED SIGNALS

Abstract: Source: US2005069031A [EN] A **method** and circuit for measuring a statistical value of jitter for a data signal having a data rate f_D , comprises digitally sampling the data signal at a sampling rate, f_S , to produce sampled logic values, where f_D/f_S is a predetermined non-integer ratio; and analyzing the sampled values to deduce a statistical value of the jitter.

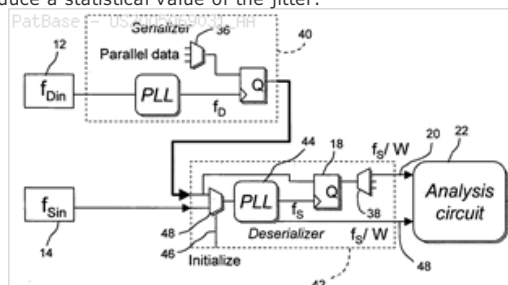
Classifications:

International (ipc 8-9): G01R29/00 G06F1/04 G06F15/80 G06M1/10 G08C15/00 H04B1/76 H04B7/005 H04B7/04 H04B7/212 H04B7/26 H04H1/00 H04J3/00 H04J3/02 H04J3/06 H04J3/16 H04J3/22 H04J3/24 H04L1/00 H04L1/16 H04L1/20 H04L12/00 H04L12/06 H04L12/18 H04L12/26 H04L12/28 H04L12/403 H04L12/413 H04L12/42 H04L12/56 H04L12/66 H04L12/741 H04L25/03 H04L29/00 H04L29/02 H04L29/06 H04L29/08 H04L36/00 H04L5/00 H04Q1/20 H04W16/28 H04W24/00 H04W28/00 H04W28/04 H04W28/06 H04W28/18 H04W28/26 H04W4/00 H04W4/18 H04W40/00 H04W48/18 H04W52/38 H04W72/04 H04W72/12 H04W74/00 H04W74/02 H04W74/04 H04W74/06 H04W74/08 H04W80/02 H04W84/08 H04W84/12 H04W84/18 (Advanced/Invention); H04J3/00 H04L1/06 H04L12/28 H04L12/56 H04L12/66 H04L27/26 H04L29/06 H04L29/08 H04L5/00 H04W28/04 H04W28/06 H04W28/26 H04W48/08 H04W72/04 H04W72/12 (Advanced/Non-invention); G01R29/00 G06F1/04 G06M1/00 H04B7/005 H04B7/26 H04J3/00 H04J3/02 H04L1/20 H04L12/06 H04L12/28 H04L12/407 H04L12/56 H04L12/66 H04L25/03 H04L29/00 H04L29/02 H04L29/06 H04L29/08 H04Q1/18 H04W16/00 H04W28/00 H04W28/02 H04W4/00 H04W4/18 H04W52/00 H04W72/00 H04W74/00 H04W80/00 H04W84/02 (Core/Invention); H04L29/08 H04W72/00 (Core/Non-invention); H04L H04M H04W (Subclass/Invention)

International (ipc 1-7): G06F15/80 H01L29/792 H04H1/00 H04J3/00 H04J3/06 H04L12/00 H04L12/06 H04L12/28 H04L12/403 H04L12/42 H04L12/56 H04L12/66 H04L29/06 H04L29/08 H04L36/00 H04L36/00 H04L5/14 H04Q1/20 **CPC:** G01R29/26 G01R31/31709 H04L1/205 H04L47/15 H04L69/32 H04L69/325 H04L69/16 H04L69/161 H04L69/22 H04L29/06068 H04L1/1635 H04L25/03343 H04L47/2441 H04W80/02 H04W72/1273 H04W28/065 H04L1/0025 H04L1/0073 H04L1/0078 H04L1/0618 H04L1/1621 H04L1/1671 H04L12/403 H04L12/4633 H04W28/04 H04W28/06 H04W48/08 H04W74/06 H04W74/0808 H04W74/00 H04W74/0816 H04L5/0023 H04L5/0048 H04L5/0091 H04L27/2605 H04L69/08 H04L69/24 H04L69/324 H04W52/383 H04W72/0406 H04W72/12 H04W84/12 H04L47/70 H04L12/66 H04L29/06

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**Family:**

Publication number	Publication date	Application number	Application date
AT460796 E	20100315	AT20040795249T	20041015
AT520231 E	20110815	AT20040176962T	20041015
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Probable Assignee: QUALCOMM INC

Assignee(s): (std): SUNTER STEPHEN K ; ROY AUBIN P J ; MEYLAN ARNAUD ; WALLACE MARK S ; QUALCOMM INC ; NANDA SANJIV ; KETCHUM JOHN W ; KETCHUM JOHN WENDELL ; LOGICVISION INC ; WALTON J RODNEY ; WALTON RODNEY J ; WALTON JAY R ; WALTON JAY RODNEY

Assignee(s): MENTOR GRAPHICS CORP ; ROY AUBIN PJ ; QUALCOMM INC A DELAWARE CORP ; QUALCOMM INCATTN: INTERNATIONAL IP ADMINISTRATIONS5775 MOREHOUSE DRIVESAN DIEGOC92121-1714US ; QUALCOMM INC5775 MOREHOUSE DRIVESAN DIEGOC92121-1714US ; QUALCOMM INC SAN DIEGO ; QUALCOMM INC ND GES D STAATES DELAWARE SAN DIEGO ; COMERICA BANK

Inventor(s): (std): JOHN W KETCHUM ; KETCHUM JOHN W ; J RODNEY WALTON ; MEYLAN ARNAUD ; NANDA SANJIV ; NANDA SANJIV MEYLAN ARNAUD WAL ; SANJIV KETCHUM JOHN W WALLACE ; SANJIV KETCHUM JOHN W WALTON J ; SANJIV NANDA ; SANJIV WALTON J RODNEY NANDA ; SANJIV WALTON RODNEY J KETCHUM ; WALLACE MARK S ; WALTON J RODNEY ; RODNEY J WALTON ; RODNEY WALTON J ; WALTON JAY RODNEY ; ROY AUBIN P J ; RODNEY WALTON JAY ; KETCHUM JOHN WENDELL ; KETCHUM JOHN ; WALTON RODNEY ; WALTON JAY R ; WALLACE MARK ; SUNTER STEPHEN K ; WALTON RODNEY J ; RODNEY NANDA SANJIV WALTON JAY ; ARNAUD MEYLAN

Inventor(s): NANDA SANJIV WALTON JAY RODNEY ; WALTON RODNEY J CARLISLE ; ROY AUBIN PJ ; JRODNEY WALTON ; JOHN WKETCHUM ; WALTON JAY RODNEY SAN DIEGO CA ; NANDA SANJIV SAN DIEGO CA ; WALTON JAY ; WALTON JAY RODNEYUS ; ROY AUBIN ; WALTON J RODNEY CARLISLE ; WALTON J RODNEY NANDA SANJIV ; SUNTER STEPHEN ; NANDA SANJIV MEYLAN ARNAUD WALTON RODNEY J ; NANDA SANJIV RAMONA ; NANDA SANJIVUS ; MEYLAN ARNAUD SAN DIEGO ; JAY RODNEY WALTON ; KETCHUM JOHN W HARVARD ; KETCHUM JOHN W WALLACE MARK S WALTON RODNEY J NAND ; KETCHUM JOHN WUS ; MARK S WALLACE

Agent(s): MADDERNS PATENT AND TRADE MARK ATTORNEYS; SMART AND BIGGAR; WAGNER AND GEYER PARTNERSCHAFT MBB PATENT U RECHTSANWAELTE; BARDEHLE PAGENBERG PARTNERSCHAFT MBB PATENTANWAELTE RECHTSANWAELTE; HESELBERGER JOHANNES; GEYER ULRICH F; LANE CATHAL MICHAEL; O NEILL AOIFE; CARSTENS DIRK WILHELM; WEGNER HANS; WIMMER HUBERT; CARPINTERO MARIO; FABREGA XAVIER; FORTEA JUAN JOSE; SANFORD TCOLB AND CO; LOGICVISION CANADA INC; QUALCOMM INC PATENTS DEPARTMENT; QUALCOMM INC; EUGENE E; PROUX EUGENE E; LEUNG DENNIS S K; DENNIS S K; QUALCOMM PATENT GROUP; THIEN T; JAMES H; THIEN; RUPIT; CHARLES E; JAMES HUNT; QUALCOMM IP DEPARTMENT

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

Title: DIFFERENTIATING FIXED DEVICES FROM MOBILE DEVICES IN MOBILE BROADBAND NETWORKS

Abstract: Source: US2013265904A [EN] Fixed devices may be distinguished from mobile devices in a broadband **wireless** network. Fixed devices may be given an identifier that identifies the device as a fixed device.

Classifications:

International (IPC 8-9): G06F15/16 H04B17/00 H04B5/00 H04B7/04 H04B7/0456 H04B7/06 H04B7/26 H04J11/00 H04J3/00 H04L1/00 H04L12/26 H04L12/721 H04L25/02 H04L25/03 H04L27/26 H04L29/06 H04L5/00 H04L5/14 H04N21/643 H04W16/00 H04W16/14 H04W16/32 H04W24/00 H04W24/02 H04W24/10 H04W28/04 H04W28/08 H04W36/00 H04W36/04 H04W36/12 H04W36/14 H04W36/22 H04W4/00 H04W48/10 H04W48/12 H04W48/16 H04W48/20 H04W52/02 H04W52/08 H04W52/10 H04W52/14 H04W52/18 H04W52/24 H04W52/28 H04W52/40 H04W52/50 H04W56/00 H04W68/00 H04W68/02 H04W72/00 H04W72/04 H04W72/08 H04W74/00 H04W74/08 H04W76/02 H04W76/06 H04W84/04 H04W88/02 H04W88/06 H04W88/08 H04W88/10 H04W88/16 H04W92/20 (Advanced/Invention);

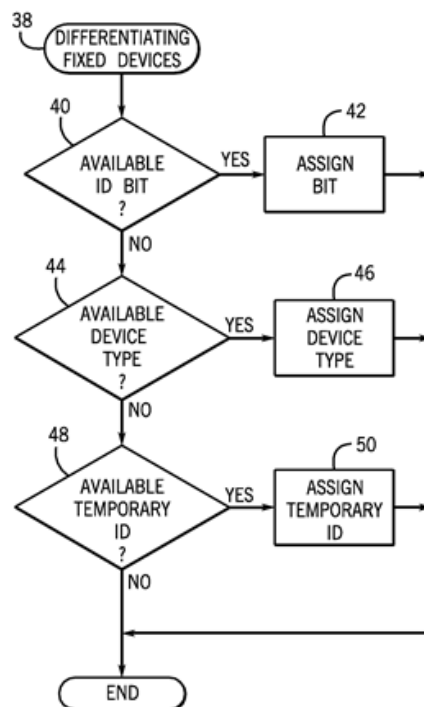
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CPC: H04W52/0216 H04L5/0078 H04W72/0446 H04L65/1059 H04L65/80 H04W56/0005 H04W68/02 H04W36/12 H04L5/0032 H04W16/32 H04W84/045 H04W88/10 H04W52/242 H04W52/40 H04B7/0456 H04L5/003 H04L5/0037 H04L5/0094 H04L43/50 H04L45/70 H04L65/608 H04W24/00 H04W24/02 H04W52/18 H04W72/0413 H04W72/042 H04B7/022 H04B7/0417 H04L5/0035 H04L5/0051 H04L5/0057 H04L25/0224 H04W52/146 H04W72/0406 H04L5/14 H04L5/0048 H04W72/085 H04W28/08 H04W56/0045 H04W48/16 H04W52/0219 H04W52/241 H04J11/0073 H04W52/50 H04W48/20 H04L5/005 H04L25/0206 H04L25/0328 H04L25/03343 H04L2025/03426 H04L2025/03802 H04W16/14 H04W72/0453 H04W24/10 H04W48/12 H04W48/10 H04B7/0486 H04B7/0632 H04B7/0639 H04L5/0007 H04L5/001 H04L5/0053 H04L5/0082 H04L5/0087 H04L5/0096 H04L5/1469 H04W72/00 H04W88/02 H04W88/08 H04W92/20 H04W72/10 H04W52/282 H04W74/0833 Y02D70/1262 Y02D70/1264 Y02D70/146 Y02D70/444 Y02D70/142 Y02D70/144 Y02D70/1222 Y02D70/1224 Y02D70/1226 Y02D70/164 Y02D70/21 Y02D70/22 Y02D70/442 Y02D70/23 Y02D70/1244 Y02D70/25 H04W28/085 Y02D70/124 Y02B70/30 Y02D70/122 H04W76/15 H04W76/34 H04W28/04 H04W56/001 H04L25/0226 H04W4/70 Y02D70/00 H04W28/048

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Priority:

CN201180070548	20110930	CN201180070551	20111201	EP20110862167	20111216
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US20160065981	20160310	WO2011US62659	20111201		

Probable Assignee: INTEL CORP

Assignee(s): (std): BOLOTIN ILYA ALEXANDROVICH ; BOLOTIN LLYA ALEXANDROVICH ; CHEN XIAOGANG ; CHOI YANG SEOK ; FWU JONG KAE ; DAVYDOV ALEXEY VLADIMIROVICH ; FWU JONG KAE J K ; ETEMAD KAMRAN ; DAVYDOV ALEXEI VLADIMIROVICH ; FOERSTER JEFFREY R ; DAVYDOV ALEXEI ; FU JIN ; GUPTA MARUTI ; INTEL CORP ; KOC ALI ; NIU HUANING ; MOROZOV GREGORY VLADIMIROVICH ; MALTSEV ALEXANDR ALEXANDROVICH ; MALTSEV ALEXANDER ALEXANDROVICH ; LI QINGUA ; HSUAN YI ; KOC ALI T ; LI QINGHUA ; MUCKE CHRISTIAN ; OYMAN OZGUR ; PAPATHANASSIOU APOSTOLOS ; VANNITHAMBY RATH ; ZHU JING ; WANG PING ; SHIRANI MEHR HOOMAN ; SERGEEV VADIM SERGEEVICH ; YANG XIANGYING ; SERGEYEV VADIM SERGEYEVICH ; ZHU YUAN ; YANG RONGZHEN ; WANG XINRONG ; ZHANG YUJIAN ; VENKATACHALAM MUTHAIAH ; SHAN CHANG HONG ; SIROTKIN ALEXANDER ; YIN HUJUN ; ZHU YUAN Y

Assignee(s): FWU JONG KAE JK ; INTEL SANTA CLARA CORP

Inventor(s): (std): A KE ; BOLOTIN LLYA ALEXANDROVICH ; CHEN XIAOGANG ; CHOI YANG SEOK ; DAVYDOV ALEXEI ; DAVYDOV ALEXEI VLADIMIROVICH ; FU JIN ; GUPTA MARUTI ; HSUAN YI ; J ZHU ; KOC ALI ; LI QINGHUA ; LI QINGUA ; MALTSEV ALEXANDER ALEXANDROVICH ; OYMAN OZGUR ; PAPATHANASSIOU APOSTOLOS ; SERGEYEV VADIM SERGEYEVICH ; SHAN CHANGHONG ; VANNITHAMBY RATH ; WANG XINRONG ; YANG RONGZHEN ; YIN HUJUN ; ZHANG YUJIAN ; ZHU JING ; ZHU YUAN ; ZHU YUAN Y ; YANG XIANGYING ; WANG PING ; VENKATACHALAM MUTHAIAH ; SIROTKIN ALEXANDER ; SHIRANI MEHR HOOMAN ; SHAN CHANG HONG ; SERGEEV VADIM SERGEEVICH ; NIU HUANING ; MUCKE CHRISTIAN ; MOROZOV GREGORY VLADIMIROVICH ; MALTSEV ALEXANDR ALEXANDROVICH ; KOC ALI T ; FWU JONG KAE J K ; FWU JONG KAE ; FOERSTER JEFFREY R ; ETEMAD KAMRAN ; DAVYDOV ALEXEY VLADIMIROVICH ; BOLOTIN ILYA ALEXANDROVICH

Inventor(s): FWU JONG KAE JK

Agent(s): HUFTON DAVID ALAN; JENNINGS VINCENT LOUIS; HGF LTD; HARRISON GODDARD FOOTE LLP; LEHMANN MARIA ISABEL; SCHWEGMAN LUNDBERG AND WOESSNER PA; ALPINE TECHNOLOGY LAW GROUP LLC; THORPE NORTH AND WESTERN LLP; OBSHESTVO S OGRANICHENNOI OTVETSTVENNOSTIU SOJUZPATENT; COOL KENNETH J; CURTIN JOSEPH P; COOL KENNETH; OSBORNE DAVID W ET AL; MCCrackin ANN M ET AL; TROP TIMOTHY N ET AL; TROP TIMOTHY N; MADDEN ROBERT B ET AL; MADDEN ROBERT B REG NO 57

521 ET AL; KACVINSKY JOHN 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 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

Title: **METHOD** FOR RECEIVING DOWNLINK DATA CHANNELS IN MULTICELL-BASED **WIRELESS COMMUNICATION** SYSTEMS AND APPARATUS FOR SAME

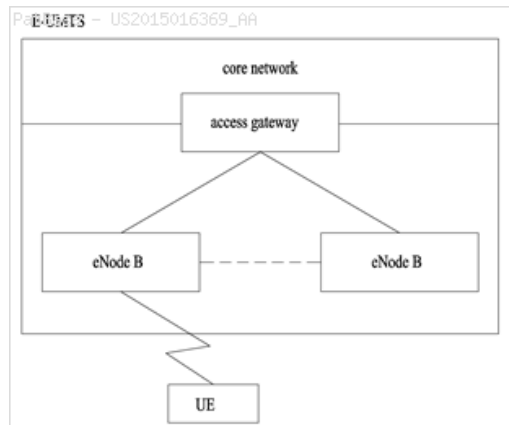
Abstract: Source: US2015016369A [EN] The present invention relates to a **method** by which a terminal receives a downlink data channel based on a terminal-specific reference signal in a **wireless communication** system. In detail, the **method** includes the steps of: receiving from a network information on one or more settings defining large scale properties of a terminal-specific reference signal through a higher layer; detecting from the network scheduling information on a downlink data channel based on a terminal-specific reference signal; and receiving from the network the downlink data channel based on the terminal-specific reference signal on the basis of the scheduling information, wherein the scheduling information includes an indicator indicating one or more of the settings.

Classifications:

International (IPC 8-9): H04B17/00 H04B17/24 H04B17/309 H04B7/02 H04B7/024 H04B7/04 H04B7/0413 H04B7/06 H04B7/26 H04J11/00 H04L1/18 H04L12/26 H04L27/26 H04L5/00 H04W16/28 H04W24/08 H04W24/10 H04W28/16 H04W28/18 H04W56/00 H04W72/04 H04W72/12 H04W88/02 (Advanced/Invention); H04B7/024 H04B7/0413 H04B7/06 H04L5/00 H04W88/02 H04W88/08 (Advanced/Non-invention)

CPC: H04L5/0048 H04W72/1273 H04W72/0413 H04L5/0057 H04W24/08 H04W88/02 H04W88/08 H04B7/2612 H04W72/1289 H04B7/2621 H04B17/24 H04B17/309 H04W72/0446 H04B17/00 H04L1/1861 H04B7/0413 H04L5/0037 H04L27/2657 H04L27/2662 H04L27/2675 H04W72/04 H04B7/024 H04B7/0626 H04L5/0014 H04L5/005 H04L5/0094 H04L5/0098 H04L5/001 H04L5/0044 H04L5/0091 H04W72/042 H04L5/0035 H04L5/0051 H04L5/0053 H04B7/26 H04L1/0003 H04L1/0009 H04L1/0015 H04L1/0026

US: 370/252 370/329



Family:

Publication number	Publication date	Application number	Application date
■ CN104106223 A	20141015	CN201380008380	20130208
■ CN104137440 A	20141105	CN201380008785	20130212
■ CN104137440 B	20170929	CN201380008785	20130212
■ CN104170275 A	20141126	CN201380008937	20130212
■ CN104170275 B	20170503	CN201380008937	20130212
■ CN104662984 A	20150527	CN201380048533	20131010
■ CN107104781 A	20170829	CN201710223854	20130212
■ CN107547187 A	20180105	CN201710933476	20130212
■ EP2797242 A1	20141029	EP20130746288	20130212
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■ EP2797243 A1	20141029	EP20130746388	20130212
■ EP2797243 A4	20151028	EP20130746388	20130212
■ EP2797243 B1	20170705	EP20130746388	20130212
■ EP2800286 A1	20141105	EP20130746635	20130208
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■ EP2874335 A1	20150520	EP20130819354	20130716
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■ JP2015511447 T2	20150416	JP20140555505T	20130212
■ JP2015511460 T2	20150416	JP20140556483T	20130212
■ JP2015513237 T2	20150430	JP20140555504T	20130208
■ JP2015533062 T2	20151116	JP20150539497T	20131010
■ JP2016187198 A2	20161027	JP20160112450	20160606
■ JP5902835 B2	20160413	JP20140556483T	20130212
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■ KR20140124356 A	20141024	KR20147017642	20130212
■ KR20140124358 A	20141024	KR20147019344	20130208
■ KR20150030661 A	20150320	KR20147035133	20130709
■ KR20150035556 A	20150406	KR20147033370	20130716
■ KR20150079554 A	20150708	KR20157005962	20131010
■ US2015016369 AA	20150115	US20130373184	20130212
■ US2015023265 AA	20150122	US20130371912	20130212
■ US2015029966 AA	20150129	US20130373082	20130208
■ US2015173064 AA	20150618	US20130414864	20130716
■ US2015180625 AA	20150625	US20130411568	20130709
■ US2015282126 AA	20151001	US20130426933	20131010
■ US2017078066 AA	20170316	US20160359776	20161123
■ US2017195098 AA	20170706	US20170467151	20170323

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US9844045 BB	20171212	US20130426933	20131010
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WO14010911 A1	20140116	WO2013KR06088	20130709
WO14014253 A1	20140123	WO2013KR06345	20130716
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Priority:

CN201380008785	20130212	CN201380008937	20130212	US20120597725P	20120211
JP20140555505T	20130212	JP20160112450	20160606	EP20130746388	20130212
US20120669655P	20120709	US20120672253P	20120716	US20120675810P	20120725
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US20170708336	20170919	US20150426933	20150309		

Probable Assignee: LG ELECTRONICS INC

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

Inventor(s): (std): KIM BYOUNGHOON ; KIM KI JUN ; PARK JONG HYUN ; SEO DONGYOUN ; SEO HAN BYUL ; SOHN ILL SOO ; YI YUNJUNG ; YI YUN JUNG ; SOHN ILLSOO ; SEO HANBYUL ; SEO DONG YOUN ; PARK JONGHYUN ; KIM KIJUN ; KIM EUNSUN ; KIM EUN SUN ; KIM BYOUNG HOON

Agent(s): CABINET PLASSERAUD; FRENKEL MATTHIAS ALEXANDER; AOKI ATSUSHI; TSURUTA JUNICHI; BIRCH STEWART KOLASCH AND BIRCH LLP; LEE HONG DEGERMAN KANG WAIMEY; 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 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: RANDOM ACCESS USING PREDICTIVE MOBILITY

Abstract: Source: US2015036598A [EN] **Methods**, systems, and devices are described for predicting a current random access transmission power detectable by a base station based on historical transmission power information. In one aspect, a mobile device may access a historical transmission power associated with a current state of the mobile device, with the historical transmission power based on mobility patterns of the mobile device. Based at least in part on the accessed historical transmission power, the mobile device may predict a current random access transmission power of the mobile device, where the predicted current random access transmission power is configured to elicit a random access response from a base station. In one aspect, the techniques described herein may reduce a number of power ramp steps taken by the mobile device during a random access procedure, reduce interference from the mobile device during the random access procedure, or both based on the predicted current random access transmission power.

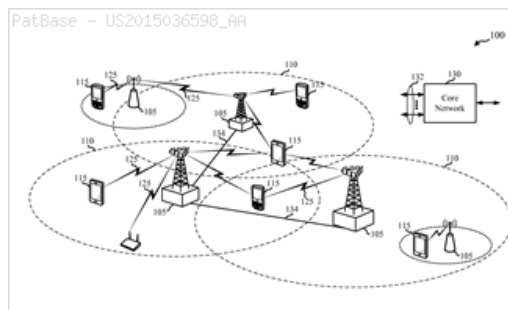
Classifications:

International (IPC 8-9): H04B1/38 H04W36/00 H04W36/04 H04W36/10 H04W36/24 H04W36/32 H04W4/00 H04W4/02 H04W4/04 H04W52/04 H04W52/22 H04W52/32 H04W52/50 H04W60/00 H04W64/00 H04W68/02 H04W68/04 H04W72/00 H04W72/02 H04W72/04 H04W74/08 H04W8/08 (Advanced/Invention);

H04W36/00 H04W36/10 H04W52/22 H04W52/28 H04W52/32 H04W52/36 H04W60/00 H04W76/06 (Advanced/Non-invention)

CPC: H04W72/02 H04W72/0473 H04W72/048 H04W4/027 H04W8/08 H04W36/04 H04W36/245 H04W36/32 H04W36/0055 H04W36/10 H04W52/22 H04W52/223 H04W52/228 H04W52/285 H04W52/362 H04W52/50 H04W60/00 H04W74/0833 H04W4/046 H04W52/325 H04W36/0083 H04W64/006 H04W68/02 H04W60/04 H04W68/04 H04W64/00 H04W4/029

US: 1/1 370/329 370/332 455/436 455/452.1 455/456.1 455/458 455/561

**Family:**

Publication number	Publication date	Application number	Application date
■ CN105432118 A	20160323	CN201480042868	20140721
■ CN105474714 A	20160406	CN201480042871	20140721
■ EP3028503 A1	20160608	EP20140748411	20140721
■ EP3028510 A1	20160608	EP20140750085	20140721
■ ID201712713 A	20171124	ID2016P0001011	20140721
■ IN07906CN2015 A	20160831	IN2015CN07906	20151222
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■ US2015036598 AA	20150205	US20140244346	20140403
■ US2015036663 AA	20150205	US20140211249	20140314
■ US2015038140 AA	20150205	US20130014120	20130829
■ US2015038143 AA	20150205	US20140335377	20140718
■ US2015038156 AA	20150205	US20140244339	20140403
■ US2015038180 AA	20150205	US20140279147	20140515
■ US2015163639 AA	20150611	US20150621443	20150213
■ US2015289110 AA	20151008	US20150747623	20150623
■ US9351304 BB	20160524	US20140244346	20140403
■ US9414389 BB	20160809	US20140244346	20140403
■ US9474000 BB	20161018	US20140211249	20140314
■ US9485771 BB	20161101	US20140244346	20140403
■ US9763252 BB	20170912	US20140244339	20140403
■ WO15017159 A2	20150205	WO2014US47450	20140721
■ WO15017159 A3	20150402	WO2014US47450	20140721
■ WO15017160 A1	20150205	WO2014US47451	20140721
■ WO15017161 A1	20150205	WO2014US47452	20140721
■ WO15017162 A1	20150205	WO2014US47453	20140721
■ WO15017163 A1	20150205	WO2014US47454	20140721
■ WO15017165 A1	20150205	WO2014US47456	20140721

Priority:

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WO2014US47452	20140721	WO2014US47453	20140721		

Probable Assignee: QUALCOMM INC**Assignee(s):** (std): QUALCOMM INC

Inventor(s): (std): AWONIYI OTERI OLUFUNMILOLA ; AWONIYI OTERI OLUFUNMILOLA O ; DALEY ROBERT SEAN ; KILPATRICK II THOMAS ; KILPATRICK II THOMAS E ; LUNDQVIST PATRIK NILS ; QUICK JR ROY FRANKLIN ; SARAJEDINI AMIR

Agent(s): CARSTENS DIRK WILHELM; DORA AM BADAR S PSI; HOLLAND AND HART LLP; SCHRAMM PAUL M

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: **METHOD**, NETWORK DEVICE, AND BASE STATION FOR PAGING NARROWBAND TERMINAL

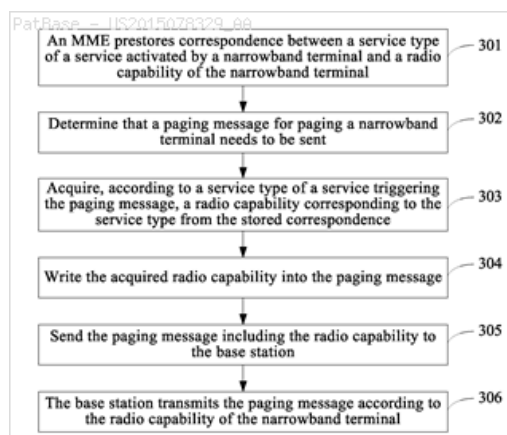
Abstract: Source: US2015078329A [EN] Embodiments of the present invention disclose a **method** for paging a narrowband terminal. The **method** includes: determining that a **paging message** for paging a narrowband terminal needs to be sent; sending a **paging message** including narrowband terminal information to a base station, so that the base station obtains a radio capability of the narrowband terminal according to the narrowband terminal information and transmits the **paging message** according to the radio capability of the narrowband terminal.

Classifications:

International (IPC 8-9): H04L5/00 H04W4/00 H04W48/08 H04W64/00 H04W68/00 H04W68/02 H04W72/04 (Advanced/Invention); H04W4/00 H04W88/08 (Advanced/Non-invention)

CPC: H04W72/048 H04L5/0005 H04W88/08 H04W68/02 H04L5/0053 H04W64/006 H04L61/6054 H04W4/70

US: 370/330 455/426.1 455/561



Family:

Publication number	Publication date	Application number	Application date
CN103428809 A	20131204	CN201210161391	20120523
CN103428809 B	20170510	CN201210161391	20120523
CN107071705 A	20170818	CN201710193680	20120523
EP2844011 A1	20150304	EP20130793194	20130523
EP2844011 A4	20150826	EP20130793194	20130523
US2015078329 AA	20150319	US20140550679	20141121
US2017181124 AA	20170622	US20170446856	20170301
US9615351 BB	20170404	US20140550679	20141121
WO13174297 A1	20131128	WO2013CN076164	20130523

Priority:

CN201210161391 20120523 CN201710193680 20120523 WO2013CN076164 20130523
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Probable Assignee: HUAWEI TECHNOLOGIES CO LTD

Assignee(s): (std): HUAWEI TECH CO LTD

Assignee(s): HUAWEI TECHNOLOGIES CO ; HUAWEI TECHNOLOGIES CO LTD

Inventor(s): (std): LI YUE ; ZHU SONG

Agent(s): GODDAR HEINZ J; SLATER MATSIL LLP

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: **METHOD** AND APPARATUS FOR TRANSMITTING/RECEIVING DATA IN **WIRELESS COMMUNICATION** SYSTEM

Abstract: Source: US2015296518A [EN] Disclosed is a **method** and apparatus for transmitting/receiving data in a **wireless communication** system. The **method** includes: a terminal transmitting a coverage enhancement request or capability information for the terminal; a base station determining a channel setting for the terminal based on the transmitted request or information; and transmitting downlink data and performing random access on the basis of the determined channel setting. Namely, a scheme for adaptively transmitting and receiving data in consideration of the coverage of the terminal is proposed.

Classifications:

International (IPC 8-9): H04B7/26 H04J11/00 H04L1/08 H04L5/00

H04W24/08 H04W4/00 H04W72/04 (Advanced/Invention);

H04L1/00 H04L1/16 H04L1/18 (Advanced/Non-invention)

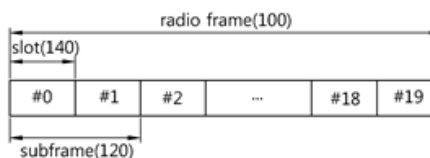
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H04L1/1822 H04L5/0053 H04L5/0091 H04W4/70

US: 370/329 370/336

PatBase - US2015296518_AA



Family:

Publication number	Publication date	Application number	Application date
■ CN104823390 A	20150805	CN201380062778	20131101
■ CN104823390 B	20171114	CN201380062778	20131101
■ CN104937866 A	20150923	CN201380062789	20131101
■ US2015296518 AA	20151015	US20130439540	20131101
■ US2015304080 AA	20151022	US20130438856	20131101
■ US9548845 BB	20170117	US20130439540	20131101
■ US9893853 BB	20180213	US20130438856	20131101
■ WO14069944 A1	20140508	WO2013KR09863	20131101
■ WO14069945 A1	20140508	WO2013KR09864	20131101

Priority:

US20120721473P 20121101	US20130438856 20131101	US20130749878P 20130107
US20130751269P 20130111	US20130808211P 20130404	US20130439540 20131101
US20130819497P 20130503	US20130862956P 20130806	WO2013KR09863 20131101
WO2013KR09864 20131101		

Probable Assignee: LG ELECTRONICS INC

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

Inventor(s): (std): AHN JOON KUI ; AHN JOONKUI ; AN JUNJI ; LI RUNZHEN ; LIU XIANGSHAN ; SEO DONG YOUN ; SEO DONGYOUN ; SEO IN KWON ; SEO INKWON ; YANG SUCK CHEL ; YANG SUCKCHEL ; YI YUN JUNG ; YI YUNJUNG ; YOU HYANG SUN ; YOU HYANGSUN

Agent(s): DENTONS US LLP; LEE HONG DEGERMAN KANG AND WAIMEY; S AND IP PATENT AND LAW FIRM

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

Title: **METHOD** AND APPARATUS FOR TRANSMITTING DATA IN **WIRELESS COMMUNICATION** SYSTEM

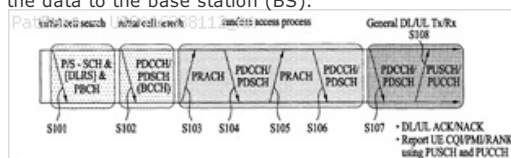
Abstract: Source: US2016338112A [EN] The present invention relates to a **wireless communication** system. In detail, the present invention is a **method** for transmitting data to a base station (BS) at a user equipment. The **method** comprises: receiving information regarding a contention-based Physical Uplink Shared Channel (PUSCH) zone including a plurality of contention-based PUSCH blocks; allocating at least one contention-based PUSCH resource block for transmission of the data based on the contention-based PUSCH zone information; and transmitting the data to the base station (BS).

Classifications:

International (IPC 8-9): H04B7/26 H04L1/00 H04L1/16 H04L1/18
H04L12/64 H04L27/26 H04L5/00 H04W28/02 H04W52/22 H04W72/00
H04W72/04 H04W72/12 H04W72/14 H04W74/00 H04W74/02 H04W74/08
H04W76/04 (Advanced/Invention)

CPC: H04L1/00 H04L5/001 H04L5/0023 H04L5/0044 H04L5/0082
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H04L1/0003 H04W52/226 H04L5/0078 H04L5/0091 H04W74/006
H04W74/02 H04W72/0413 H04W74/08 H04L1/1861 H04L5/0053 H04W72/04 H04W88/02 H04W74/0833 H04W72/1284 H04W88/08
H04W76/27

US: 370/329



Family:

Publication number	Publication date	Application number	Application date
■ CN106031074 A	20161012	CN201580008678	20150216
■ CN106134098 A	20161116	CN201580008820	20150226
■ EP3105878 A1	20161221	EP20150749455	20150212
■ EP3105878 A4	20170927	EP20150749455	20150212
■ JP2017511088 T2	20170413	JP20160569541T	20150216
■ JP2017512041 T2	20170427	JP20160569540T	20150216
■ JP2017512042 T2	20170427	JP20160569542T	20150216
■ JP2017513272 T2	20170525	JP20160551852T	20150212
■ JP6248213 B2	20171213	JP20160569541T	20150216
■ KR20160108829 A	20160920	KR20167021396	20150212
■ KR20160120326 A	20161017	KR20167025175	20150216
■ KR20160120327 A	20161017	KR20167025176	20150216
■ KR20160122221 A	20161021	KR20167025174	20150216
■ US2016338112 AA	20161117	US20150112631	20150216
■ US2017013610 AA	20170112	US20150119200	20150212
■ US2017055294 AA	20170223	US20150119115	20150216
■ US2017070987 AA	20170309	US20150119093	20150226
■ WO15122701 A1	20150820	WO2015KR01422	20150212
■ WO15122737 A1	20150820	WO2015KR01569	20150216
■ WO15122738 A1	20150820	WO2015KR01570	20150216
■ WO15122738 A8	20161013	WO2015KR01570	20150216
■ WO15122739 A1	20150820	WO2015KR01571	20150216

Priority:

US20140004213P	20140529	US20140011045P	20140612	US20140940475P	20140216
US20140944038P	20140224	US20150112631	20150216	US20150119093	20150226
WO2015KR01422	20150212	WO2015KR01569	20150216	WO2015KR01570	20150216
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US20150119115	20150216				

Probable Assignee: LG ELECTRONICS INC

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

Inventor(s): (std): CHOI KUK HEON ; CHOI KUKHEON ; CHUNG JAEHOON ; EUNJONG LEE ; GENEBECK HAHN ; CHUNG JAE HOON ; KIM JINMIN ; HAHN GENEBECK ; KUKHEON CHOI ; JAEHOON CHUNG ; JINMIN KIM ; KWANGSEOK NOH ; KIM JIN MIN ; HAHN GENE BECK ; NOH KWANGSEOK ; LEE EUNJONG ; NOH KWANG SEOK ; LEE EUN JONG

Agent(s): FRENKEL MATTHIAS ALEXANDER; ROYAL PATENT AND LAW OFFICE; 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 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: SYSTEM ACCESS **METHOD** AND APPARATUS OF A NARROWBAND TERMINAL IN A **WIRELESS COMMUNICATION** SYSTEM SUPPORTING WIDEBAND AND NARROWBAND TERMINALS

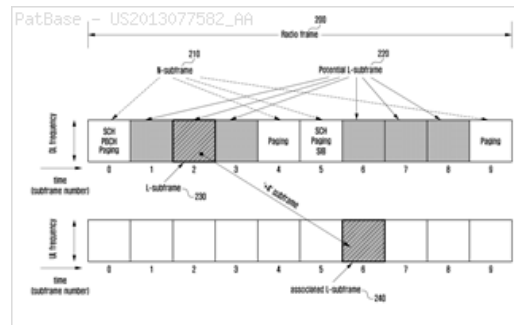
Abstract: Source: US2013077582A [EN] A system access **method** of a narrowband terminal is provided for supporting both wideband and narrowband terminals in a cellular radio **communication** system. The **method** includes broadcasting a Shared Channel (SCH) for a terminal to acquire system synchronization; transmitting a Low-end Master Information Block (L-MIB) including control information on an L-subframe configuration for supporting a second type terminal and a sub-band configuration of the L-subframe; transmitting a Low-end System Information Block (L-**SIB**) including information on downlink reception and uplink transmission of the second type terminal; and performing a random access procedure, when an attach request is received from one of the first type terminals and the second type terminals.

Classifications:

International (IPC 8-9): H04B7/26 H04J11/00 H04W4/00 H04W72/04 H04W74/00 H04W74/08 (Advanced/Invention)

CPC: H04W74/0833 H04W56/0015 H04W74/002 H04W74/006

US: 370/280 370/329



Family:

Publication number	Publication date	Application number	Application date
EP2759076 A1	20140730	EP20120834323	20120924
EP2759076 A4	20150610	EP20120834323	20120924
KR20130032548 A	20130402	KR20110096206	20110923
US2013077582 AA	20130328	US20120625468	20120924
US2015245378 AA	20150827	US20150708938	20150511
US2017196019 AA	20170706	US20170463976	20170320
US9031019 BB	20150512	US20120625468	20120924
US9603166 BB	20170321	US20150708938	20150511
WO13043006 A1	20130328	WO2012KR07634	20120924

Priority:

KR20110096206 20110923 US20120625468 20120924 WO2012KR07634 20120924
US20150708938 20150511 US20170463976 20170320

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO

Inventor(s): (std): CHO JOON YOUNG ; CHO JOONYOUNG ; KIM YOUNGBUM ; LEE JUHO ; LEE JU HO ; KIM YOUNG BUM

Agent(s): NEDERLANDSCH OCTROOIBUREAU; FARRELL LAW FIRM PC; YOON DONG YOL

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 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: MOBILE TERMINAL DEVICE AND ASSOCIATED **METHOD** FOR OBTAINING UPLINK RESOURCES

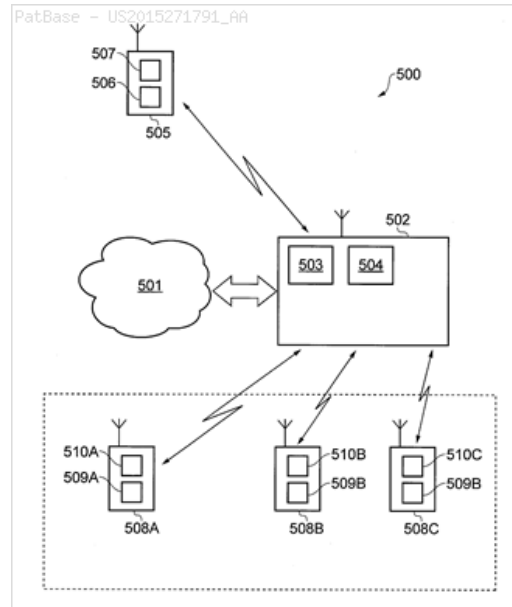
Abstract: Source: US2015271791A [EN] A **method** of allocating radio resources for uplink transmissions in a **wireless** telecommunications system, the **method** including: a first terminal device **communicating** a request for an allocation of radio resources to a base station; the base station determining there is an association between the first terminal device and a second terminal device based on their having similar predicted traffic profiles for uplink data; and the base station establishing a radio resource allocation for the second terminal device based on the resources requested by the first terminal device, and consequently transmitting radio resource allocation messages to allocate radio resources to the first and the second terminal devices for respective uplink transmissions based on the request for an allocation of radio resources received from the first terminal device.

Classifications:

International (IPC 8-9): A47B87/02 A63H33/08 B65D21/02 H04W28/02 H04W4/00 H04W4/04 H04W48/02 H04W72/04 H04W72/08 H04W72/12 H04W74/00 H04W74/08 H04W76/00 (Advanced/Invention); H04W4/00 (Advanced/Non-invention)

CPC: H04W72/0413 H04W48/02 H04W74/008 H04W72/0486 H04W72/082 H04W28/0215 H04W76/00 H04W4/70 A47B87/0284 B65D21/0209 B65D21/0204 A63H33/086 A47B87/0292 H04W72/042

US: 370/230



Family:

Publication number	Publication date	Application number	Application date
CN104885541 A	20150902	CN201380066696	20131021
EP2936902 A1	20151028	EP20130783369	20131021
EP2936902 B1	20170510	EP20130783369	20131021
EP3190848 A1	20170712	EP20170153002	20131021
GB201222902 A0	20130130	GB20120022902	20121219
GB2509071 A1	20140625	GB20120022902	20121219
JP2016509768 T2	20160331	JP20150548744T	20131021
KR20150096667 A	20150825	KR20157016039	20131021
US2015271791 AA	20150924	US20130434335	20131021
US2018055223 AA	20180301	US20170804822	20171106
US9839019 BB	20171205	US20130434335	20131021
WO14096766 A1	20140626	WO2013GB52738	20131021

Priority:

EP20130783369 20131021 GB20120022902 20121219 US20140343335 20140306
WO2013GB52738 20131021 US20170804822 20171106

Probable Assignee: SONY CORP

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

Inventor(s): (std): WAKABAYASHI HIDEJI ; WEBB MATTHEW ; WEBB MATTHEW WILLIAM

Inventor(s): HIDEJI WAKABAYASHI ; MATTHEW WEBB

Agent(s): D YOUNG AND CO LLP; HAGIWARA YASUSHI; KAMEYA YOSHIAKI; KANEMOTO TETSUO; OBLON MCCLELLAND MAIER AND NEUSTADT LLP; LEWIS DARREN

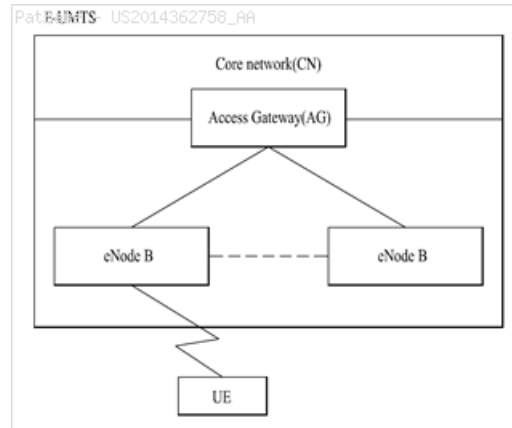
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY NZ 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: **METHOD** FOR SETTING SEARCH REGION TO DETECT DOWNLINK CONTROL CHANNEL IN **WIRELESS COMMUNICATION** SYSTEM AND APPARATUS FOR SAME

Abstract: Source: US2014362758A [EN] In the present application, disclosed a **method** for a terminal setting a search region for a downlink channel in a **wireless communication** system. More specifically, the **method** comprises the steps of receiving from a base station information related to a starting symbol of the search region by way of upper layer signaling; setting the search region by using the information related to the starting symbol; and receiving the downlink control channel by performing blind coding on the search region, wherein the starting symbol of the search region changes according to the characteristic of a subframe which receives the downlink control channel.

Classifications:

International (IPC 8-9): H04B7/26 H04J11/00 H04L12/26 H04L27/26
H04L5/00 H04L5/14 H04W4/06 H04W72/04 (Advanced/Invention)
CPC: H04W4/06 H04W72/042 H04J11/0086 H04B7/2603 H04J2211/005
H04L5/0037 H04L5/0048 H04L5/0053 H04L5/1469 H04L27/2607
H04W72/0446 H04L43/16
US: 1/1 370/312 370/329



Family:

Publication number	Publication date	Application number	Application date
■ KR20140142692 A	20141212	KR20147022830	20130228
■ US2014362758 AA	20141211	US20130374461	20130228
■ US2016345306 AA	20161124	US20160231197	20160808
■ US9432985 BB	20160830	US20130374461	20130228
■ WO13129870 A1	20130906	WO2013KR01643	20130228

Priority:

US20120605744P 20120301 US20130374461 20130228 WO2013KR01643 20130228
US20160231197 20160808 US20140374461 20140724

Probable Assignee: LG ELECTRONICS INC

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

Inventor(s): (std): KIM HAK SEONG ; KIM HAKSEONG ; LEE SEUNG MIN ; LEE SEUNGMIN ; SEO HAN BYUL ; SEO HANBYUL

Agent(s): BIRCH STEWART KOLASCH AND BIRCH 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 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: BASE STATION AND ASSOCIATED **METHOD** FOR ASSIGNING UPLINK RESOURCES TO TERMINAL DEVICES WITH A SIMILAR TRAFFIC PROFILE

Abstract: Source: US2015282155A [EN] A **method** of allocating radio resources for uplink transmissions in a **wireless** telecommunications system, including: a first terminal device **communicating** a request for an allocation of radio resources to a base station; the base station determining whether there is an association between the first terminal device and a second terminal device based on their having similar predicted traffic profiles for uplink data; and the base station establishing a radio resource allocation for the second terminal device based on the resources requested by the first terminal device, and consequently transmitting radio resource allocation messages to allocate radio resources to the first and the second terminal devices for respective uplink transmissions based on the request for an allocation of radio resources received from the first terminal device.

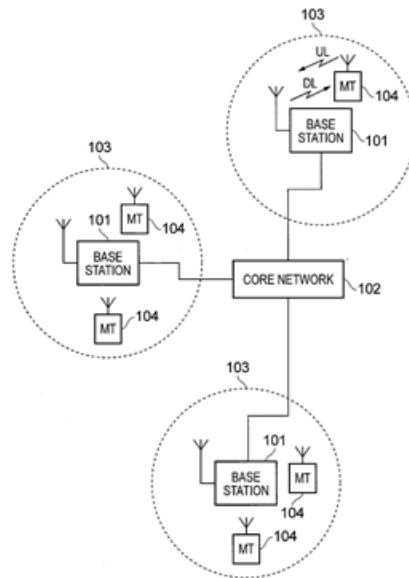
Classifications:

International (IPC 8-9): H04W4/00 H04W48/12 H04W72/04 H04W72/12 H04W74/00 (Advanced/Invention);
H04W4/00 H04W74/00 (Advanced/Non-invention)

CPC: H04W48/12 H04W72/042 H04W72/048 H04W72/0453 H04W72/121 H04W74/006 H04W4/70

US: 370/329

PatBase - US2015282155_AA



Family:

Publication number	Publication date	Application number	Application date
EP2936901 A1	20151028	EP20130783368	20131021
EP2936901 B1	20170517	EP20130783368	20131021
GB201222899 A0	20130130	GB20120022899	20121219
GB2509070 A1	20140625	GB20120022899	20121219
KR20150096663 A	20150825	KR20157015959	20131021
US2015282155 AA	20151001	US20130437381	20131021
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WO14096765 A1	20140626	WO2013GB52737	20131021

Priority:

GB20120022899 20121219 WO2013GB52737 20131021

Probable Assignee: SONY CORP

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

Inventor(s): (std): WAKABAYASHI HIDEJI ; WEBB MATTHEW

Inventor(s): HIDEJI WAKABAYASHI ; MATTHEW WEBB

Agent(s): D YOUNG AND CO LLP; OBLON MCCLELLAND MAIER AND NEUSTADT LLP; LEWIS DARREN

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: **METHOD** FOR ALLOCATING REFERENCE SIGNAL ANTENNA PORT FOR TRANSMISSION DIVERSITY TECHNIQUE IN **WIRELESS COMMUNICATION** SYSTEM, AND APPARATUS FOR SAME

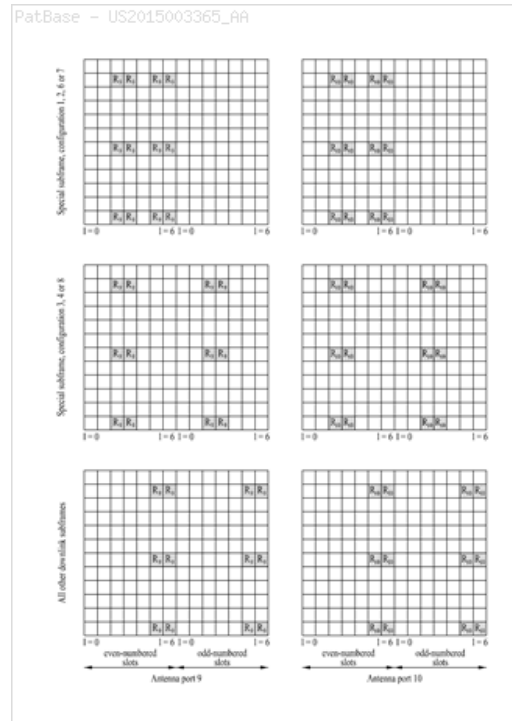
Abstract: Source: US2015003365A [EN] In the present invention, disclosed is a **method** for a base station transmitting a downlink control channel to a user equipment in a **wireless communication** system. More particularly, the **method** comprises the steps of: establishing resource element subsets comprising a plurality of resource elements; allocating a transmission resource for the downlink control channel in units of the resource element subsets; alternately allocating to the plurality of resource elements two antenna ports for demodulation-reference signal (DM-RS); and transmitting the downlink control channel to the user equipment through the transmission resource that is allocated by using the DM-RSs of the antenna ports that are allocated.

Classifications:

International (IPC 8-9): H04B7/02 H04B7/06 H04B7/26 H04L5/00
H04L5/14 H04W72/04 (Advanced/Invention)

CPC: H04B7/0452 H04L5/0053 H04L5/1469 H04W72/042 H04L5/0048
H04L5/0023 H04L5/0051

US: 1/1 370/329



Family:

Publication number	Publication date	Application number	Application date
KR20130092467 A	20130820	KR20130013327	20130206
US2015003365 AA	20150101	US20130376118	20130207
US2016366673 AA	20161215	US20160247104	20160825
US9467264 BB	20161011	US20130376118	20130207
US9888466 BB	20180206	US20160247104	20160825
WO13119053 A1	20130815	WO2013KR00991	20130207

Priority:

KR20130013327 20130206 US20120596742P 20120209 WO2013KR00991 20130207
US20130376118 20130207 US20140376118 20140731 US20160247104 20160825

Probable Assignee: LG ELECTRONICS INC

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

Inventor(s): (std): SEO HANBYUL ; SEO HAN BYUL

Agent(s): JONATHAN; MICHAEL; LEE HONG DEGERMAN KANG AND WALMEY; LEE HONG DEGERMAN KANG WAIMEY;
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
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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** OF RECEIVING PLMN INFORMATION AT A TERMINAL IN A **WIRELESS COMMUNICATION**, AND APPARATUS FOR SAME

Abstract: Source: US2013189978A [EN] Disclosed is a **method** of receiving PLMN (Public Land Mobile Network) information at a terminal in a **wireless communication**. In particular, the **method** of the present invention comprises the steps of receiving system information including a PLMN list and a prohibition indicator for limiting access to at least one PLMN of the PLMN list and performing access limitation to the specific network during a specific time.

Classifications:

International (IPC 8-9): H04B7/00 H04M1/00 H04M1/66 H04W4/00

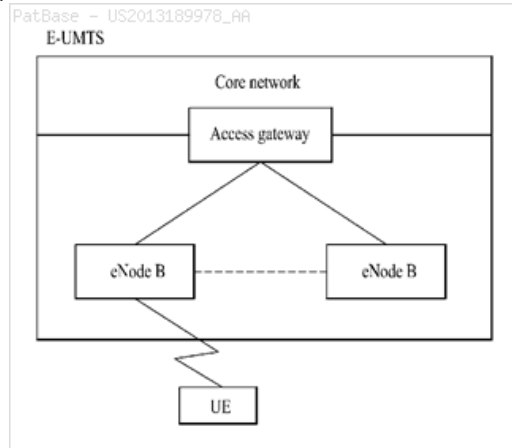
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H04W72/00 (Advanced/Invention)

CPC: H04W48/16 H04W48/02

European: H04W48/18

US: 455/410 455/411 455/434 455/450 455/509 455/552.1



Family:

Publication number	Publication date	Application number	Application date
EP2637453 A2	20130911	EP20110838273	20111107
EP2637453 A4	20160907	EP20110838273	20111107
EP2637453 B1	20171011	EP20110838273	20111107
KR20130143023 A	20131230	KR20137008158	20111107
US2013189978 AA	20130725	US20110877853	20111107
US8983431 BB	20150317	US20110877853	20111107
WO12060668 A2	20120510	WO2011KR08403	20111107
WO12060668 A3	20120705	WO2011KR08403	20111107

Priority:

US20100410853P 20101105 US20110877853 20111107 WO2011KR08403 20111107

Probable Assignee: LG ELECTRONICS INC

Assignee(s): (std): CHUN SUNGDUCK ; JUNG SUNGHOON ; LEE YOUNGDAE ; LG ELECTRONICS INC ; PARK SUNGJUN ; YI SEUNGJUNE

Inventor(s): (std): CHUN SUNG DUCK ; CHUN SUNGDUCK ; JUNG SUNG HOON ; JUNG SUNGHOON ; LEE YOUNG DAE ; LEE YOUNGDAE ; PARK SUNG JUN ; PARK SUNGJUN ; YI SEUNG JUNE ; YI SEUNGJUNE

Agent(s): KATERLE AXEL; BIRCH STEWART KOLASCH AND BIRCH LLP; 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 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

Title: **METHOD** BY WHICH TERMINALS IN **WIRELESS COMMUNICATION** SYSTEMS RECEIVE DOWNLINK CONTROL CHANNELS AND APPARATUS FOR SAME

Abstract: Source: US2015055485A [EN] The present invention relates to a **method** by which terminals in a **wireless communication** system receive control channels. More particularly, the **method** includes the steps of: receiving control information that includes the transmission mode for the control channel and information about the number of antenna ports through a broadcast channel from a base station; and receiving the control channel on the basis of the control information.

Classifications:

International (IPC 8-9): H04B7/26 H04L1/00 H04L5/00 H04W48/10

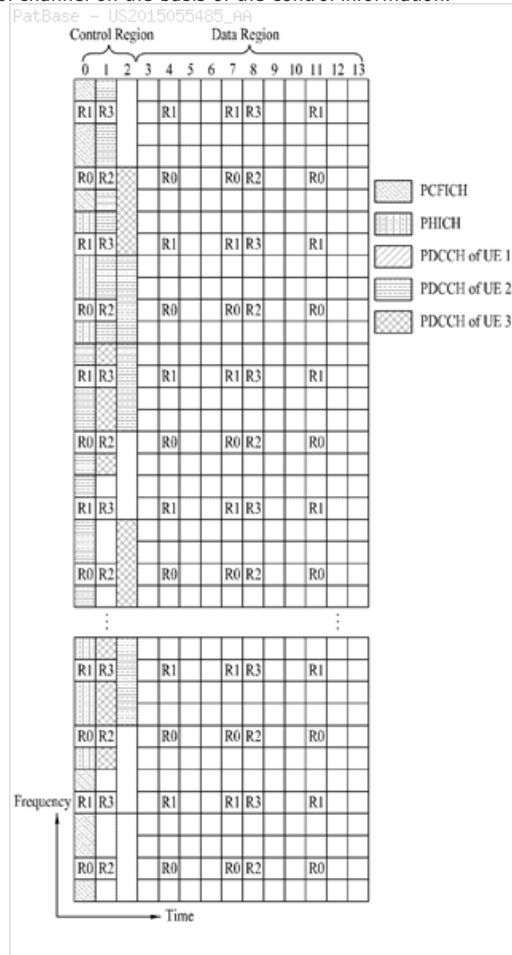
H04W48/12 H04W72/00 H04W72/04 (Advanced/Invention);

H04L5/00 H04W48/16 (Advanced/Non-invention)

CPC: H04W72/005 H04W72/042 H04L1/0061 H04L5/0048 H04L5/0055

H04W48/16 H04W48/12 H04L1/0046 H04L1/0072

US: 370/242 370/312



Family:

Publication number	Publication date	Application number	Application date
KR20140126298 A	20141030	KR20147018488	20130104
US2015055485 AA	20150226	US20130372121	20130104
US9730185 BB	20170808	US20130372121	20130104
WO13125784 A1	20130829	WO2013KR00050	20130104

Priority:

US20120602565P 20120223 US20130372121 20130104 WO2013KR00050 20130104

Probable Assignee: LG ELECTRONICS INC

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

Inventor(s): (std): KIM HAK SEONG ; KIM MYOUNG SEOB ; LEE SEUNG MIN ; SEO HAN BYUL ; SEO IN KWON ; SEO INKWON ; SEO HANBYUL ; LEE SEUNGMIN ; KIM MYOUNGSEOB ; KIM HAKSEONG

Agent(s): BIRCH STEWART KOLASCH AND BIRCH LLP; KIM YONG IN

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** FOR EXECUTING RANDOM ACCESS PROCEDURE IN **WIRELESS COMMUNICATION** SYSTEM AND APPARATUS THEREFOR

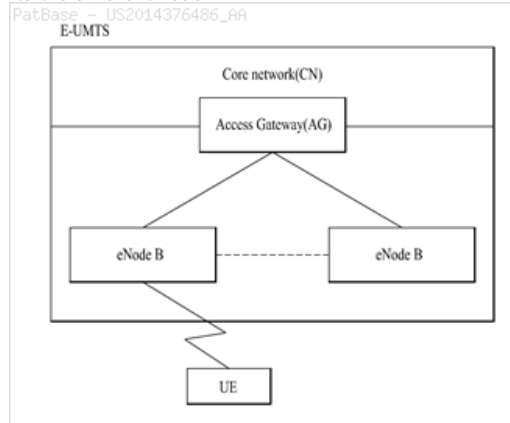
Abstract: Source: US2014376486A [EN] Disclosed is a **method** for a terminal to execute a random access procedure in a **wireless communication** system. Specifically, the **method** comprises the steps of: transmitting a random access preamble message to one or more nodes; receiving a random access response message from a serving cell from among the one or more nodes; and transmitting an uplink signal to a different node from among the one or more nodes, wherein the random access response message comprises information for transmitting the uplink signal to the different node.

Classifications:

International (IPC 8-9): H04W72/12 H04W74/08 (Advanced/Invention)

CPC: H04W72/1278 H04W74/0833

US: 370/329



Family:

Publication number	Publication date	Application number	Application date
■ KR20140130126 A	20141107	KR20147022831	20130225
■ US2014376486 AA	20141225	US20130376528	20130225
■ US9674871 BB	20170606	US20130376528	20130225
■ WO13125922 A1	20130829	WO2013KR01484	20130225

Priority:

US20120602573P 20120223 US20120604534P 20120229 US20120605760P 20120302
WO2013KR01484 20130225 US20130376528 20130225

Probable Assignee: LG ELECTRONICS INC

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

Inventor(s): (std): KIM HAK SEONG ; KIM HAKSEONG ; LEE SEUNG MIN ; LEE SEUNGMIN ; SEO DONG YOUN ; SEO DONGYOUN ; SEO HAN BYUL ; SEO HANBYUL

Agent(s): BIRCH STEWART KOLASCH AND BIRCH 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 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

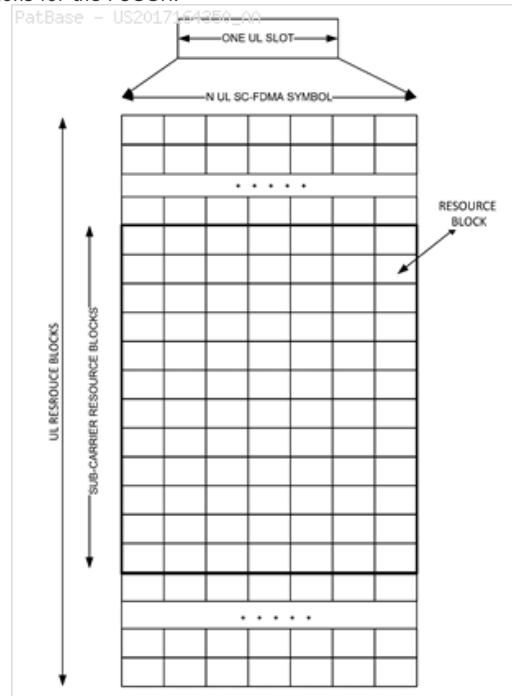
Title: **METHODS** FOR ENB, UE UPLINK TRANSMISSION AND RECEPTION

Abstract: Source: US2017164350A [EN] **Methods** and apparatus are provided for narrowband UEs. In one novel aspect, frequency hopping is used. The UE stays on the first frequency band for consecutive number of subframes before hopping to another frequency band. In another embodiment, the first set of resource elements and the second set of resource elements are discontinued with a gap in the time domain. In another novel aspect, the UE obtains sub-band information and a resource index and generates a **communication** channel for data frame transmission and receiving. In one embodiment, the UE further acquires the sub-band set information through system information. In yet another embodiment, the resource index is acquired from DCI. In yet another novel aspect, resource blocks are selected for a PUCCH for a narrowband UE. The UE determines an operating sub-band information and selects one or more narrowband regions for the PUCCH.

Classifications:

International (IPC 8-9): H04L5/00 H04W72/02 H04W72/04
H04W88/00 (Advanced/Invention)

CPC: H04L5/0028 H04L5/0044 H04L5/0053 H04W72/0413 H04W72/02
H04W72/042 H04L5/0007 H04L5/0048 H04L5/0012 H04L27/2607
H04L27/2636



Family:

Publication number	Publication date	Application number	Application date
■ CN106538039 A	20170322	CN201580037304	20150710
■ CN106664739 A	20170510	CN201580037316	20150710
■ EP3165047 A1	20170510	EP20150818401	20150710
■ EP3165048 A1	20170510	EP20150819535	20150710
■ EP3165048 A4	20171213	EP20150819535	20150710
■ US2017164350 AA	20170608	US20150321783	20150710
■ WO16004634 A1	20160114	WO2014CN082096	20140711
■ WO16004900 A1	20160114	WO2015CN083807	20150710
■ WO16004901 A1	20160114	WO2015CN083814	20150710

Priority:

WO2014CN082096 20140711 WO2015CN083807 20150710 WO2015CN083814 20150710

Probable Assignee: MEDIATEK SINGAPORE PTE LTD

Assignee(s): (std): MEDIATEK SINGAPORE PTE LTD ; SUN FEIFEI ; ZHUANG XIANGYANG

Inventor(s): (std): ZHUANG XIANGYANG ; SUN FEIFEI

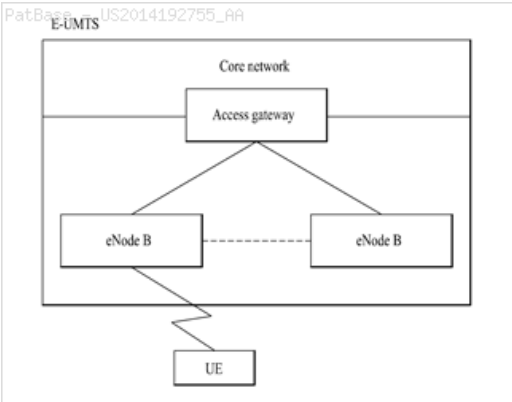
Agent(s): HABERMANN HRUSCHKA AND SCHNABEL; BEIJING SANYOU INTELLECTUAL PROPERTY AGENCY LTD

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: **METHOD** FOR TRANSMITTING CONTROL INFORMATION BY A BASE STATION IN A **WIRELESS COMMUNICATION** SYSTEM, AND DEVICE THEREFOR

Abstract: Source: US2014192755A [EN] The present application discloses a **method** for transmitting, by a base station, downlink control information to a terminal in a **wireless communication** system. More particularly, the **method** comprises the steps of: allocating, to a transmission resource, the downlink control information for the terminal; and transmitting, to the terminal, the downlink control information using the transmission resource. the downlink control information for the terminal comprises: a downlink grant; and an uplink grant, wherein the downlink grant is allocated to one of first and second slots of a subframe of the transmission resource, and the uplink grant is allocated to at least one of first and second slots of a subframe of the transmission resource.

Classifications:
International (IPC 8-9): H04B7/26 H04J11/00 H04L5/00 H04Q7/00
H04W72/04 (Advanced/Invention)
CPC: H04L5/0037 H04L5/0007 H04L5/0053 H04W72/042 H04W72/0446
US: 1/1 370/329



Family:

Publication number	Publication date	Application number	Application date
US2014192755 AA	20140710	US20120235316	20120524
US9319192 BB	20160419	US20120235316	20120524
WO13015517 A1	20130131	WO2012KR04120	20120524

Priority:
US20110511555P 20110726 US20120235316 20120524 WO2012KR04120 20120524

Probable Assignee: LG ELECTRONICS INC

Assignee(s): (std): CHUN JINYOUNG ; IHM BINCHUL ; KANG JIWON ; KIM KITAE ; KIM SUNAM ; PARK SUNGHO ; LG ELECTRONICS INC

Inventor(s): (std): CHUN JINYOUNG ; IHM BINCHUL ; KANG JIWON ; KIM KITAE ; KIM SUNAM ; PARK SUNGHO

Agent(s): BIRCH STEWART KOLASCH AND BIRCH LLP; KIM YONG IN ET AL

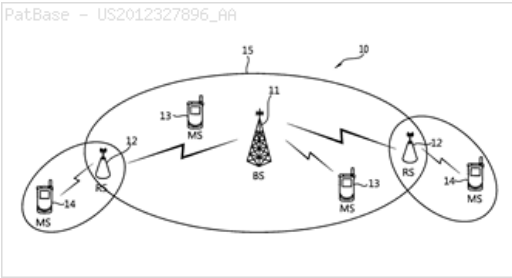
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ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

Abstract: Source: US2012327896A [EN] The present invention relates to a **method** and apparatus for performing **communications** by adjusting a resource unit. Efficient allocation of resource units can minimize power consumption. The minimization of power consumption brings about great advantages to **M2M** (machine-to-machine) **communication**. A terminal can transmit or receive data via different resource units. In this case, the resource units can be determined by MS. That is, some MS may use a particular resource unit, while the others may use a different resource unit. When different resource units are given, corresponding radio resource regions are also determined differently from one another. However, the total number of tones corresponding to the resource units may be the same.

Classifications:

International (IPC 8-9): H04B7/26 H04J11/00 H04W4/00 H04W72/04 H04W72/12 (Advanced/Invention);
H04B7/26 H04J11/00 H04W52/02 H04W72/04 (Advanced/Non-invention)
CPC: H04W72/044 H04W52/0229 H04W72/0453 H04J11/00 H04L5/0005 H04W72/0446 H04W72/1263 Y02D70/00 Y02D70/1224 Y02D70/1242 Y02D70/1262 Y02D70/1264 Y02D70/142 Y02D70/146 Y02D70/21 Y02D70/12 Y02D70/122 Y02D70/124 Y02D70/126 Y02D70/14
European: H04W72/04H T04W52/02
US: 370/328 370/329 370/330 370/331 455/450 455/464 455/509



Family:

Publication number	Publication date	Application number	Application date
KR101829922 B1	20180220	KR20110019403	20110304
KR20110101086 A	20110915	KR20110019403	20110304
US2012327896 AA	20121227	US20110582946	20110304
US8934447 BB	20150113	US20110582946	20110304
WO11108891 A2	20110909	WO2011KR01518	20110304
WO11108891 A3	20120112	WO2011KR01518	20110304

Priority:

KR20110019403 20110304 US20100310717P 20100305 WO2011KR01518 20110304
US20110582946 20110304

Probable Assignee: LG ELECTRONICS INC

Assignee(s): (std): CHO HAN GYU ; LEE HYUN WOO ; LG ELECTRONICS INC

Inventor(s): (std): CHO HAN GYU ; LEE HYUN WOO

Inventor(s): HAN GYU CHO ; HYUN WOO LEE

Agent(s): MCKENNA LONG AND ALDRIDGE LLP; 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 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 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

Title: **METHOD** FOR USER EQUIPMENT SETTING CONNECTION WITH NETWORK IN **WIRELESS COMMUNICATION** SYSTEM AND APPARATUS FOR SAME

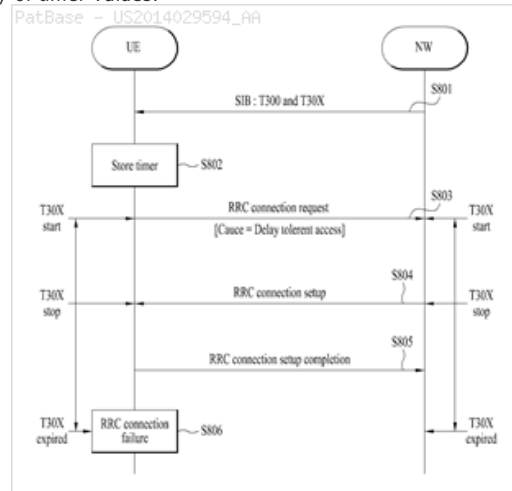
Abstract: Source: US2014029594A [EN] In the present invention, a **method** for a user equipment setting a connection with a network in a **wireless communication** system is disclosed, and more particularly, the **method** comprises the following steps: receiving a plurality of timer values from the network through a system information; and transmitting a connection request message including a reason for a specific connection to the network, wherein each of the plurality of timer values are used when transmitting the connection request message, depending on a respective corresponding connection reason, and the reason for the specific connection corresponds to a specific timer value from the plurality of timer values.

Classifications:

International (IPC 8-9): H04W48/08 H04W48/12 H04W72/04
H04W76/02 (Advanced/Invention)

CPC: H04W72/0446 H04W48/12 H04W76/18

US: 370/336



Family:

Publication number	Publication date	Application number	Application date
EP2696642 A2	20140212	EP20120768476	20120406
EP2696642 A4	20151230	EP20120768476	20120406
KR20140032981 A	20140317	KR20137018482	20120406
US2014029594 AA	20140130	US20120110244	20120406
WO12138171 A2	20121011	WO2012KR02623	20120406
WO12138171 A3	20130110	WO2012KR02623	20120406

Priority:

US20110473173P 20110408

US20120110244 20120406

WO2012KR02623 20120406

Probable Assignee: LG ELECTRONICS INC

Assignee(s): (std): CHUN SUNGDUCK ; JUNG SUNGHOON ; LEE YOUNGDAE ; LG ELECTRONICS INC ; PARK SUNGJUN ; YI SEUNGJUNE

Inventor(s): (std): CHUN SUNG DUCK ; CHUN SUNGDUCK ; JUNG SUNG HOON ; JUNG SUNGHOON ; LEE YOUNG DAE ; LEE YOUNGDAE ; PARK SUNG JUN ; PARK SUNGJUN ; YI SEUNG JUNE ; YI SEUNGJUNE

Agent(s): URNER PETER; 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 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

Title: **METHOD** AND APPARATUS FOR ACQUIRING DIVERSITY GAIN ACCORDING TO DISTRIBUTED RESOURCE ALLOCATION FOR DOWNLINK CONTROL CHANNEL IN **WIRELESS COMMUNICATION** SYSTEM

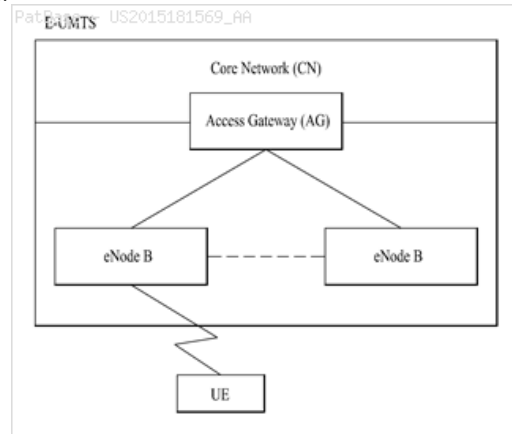
Abstract: Source: US2015181569A [EN] In the present invention, disclosed is a **method** for a base station transmitting a downlink control channel to user equipment in a **wireless communication** system. More specifically, the **method** comprises the steps of configuring resource elements, which are included in each of a plurality of resource blocks, as a plurality of resource element groups comprising a predetermined number of resource elements; allocating antenna ports to the resource elements which are included in each of the plurality of resource element groups; allocating as a transmission resource for the downlink control channel, at least one resource element group from each of the plurality of resource blocks; and transmitting the downlink control channel to the user equipment by using the transmission resource.

Classifications:

International (IPC 8-9): H04B7/02 H04B7/04 H04B7/0413 H04B7/26
H04W72/04 (Advanced/Invention);
H04L5/00 (Advanced/Non-invention)

CPC: H04W72/042 H04B7/0413 H04B7/02 H04L5/0023 H04L5/0053

US: 370/329



Family:

Publication number	Publication date	Application number	Application date
US2015181569 AA	20150625	US20130405343	20130114
US9854571 BB	20171226	US20130405343	20130114
WO14017716 A1	20140130	WO2013KR00277	20130114

Priority:

US20120674847P 20120723 US20120712216P 20121010 WO2013KR00277 20130114
US20130405343 20130114

Probable Assignee: LG ELECTRONICS INC

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

Inventor(s): (std): CHAE HYUKJIN ; KIM MYOUNGSEOB ; LEE SEUNGMIN ; SEO HANBYUL ; SEO INKWON

Agent(s): BIRCH STEWART KOLASCH AND BIRCH 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
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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: UPLINK CARRIER SELECTION FOR REDUCED BANDWIDTH MACHINE TYPE **COMMUNICATION** DEVICES

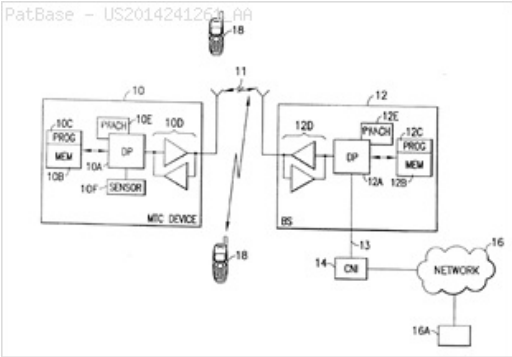
Abstract: Source: US2014241261A [EN] Uplink carrier selection is performed for reduced bandwidth machine type **communication** devices by reserving a portion of a wideband carrier for machine type **communication** traffic to provide a plurality of narrowband uplink carriers in the wideband carrier, and by selecting a **narrow band** uplink carrier of the plurality of **narrow band** uplink carriers for use by a machine type **communication** device

Classifications:

International (IPC 8-9): H04W72/04 (Advanced/Invention)

CPC: H04W72/048 H04W72/0453

US: 370/329



Family:

Publication number	Publication date	Application number	Application date
■ CN105027651 A	20151104	CN201480010965	20140226
■ EP2962504 A1	20160106	EP20140707131	20140226
■ US2014241261 AA	20140828	US20130780747	20130228
■ WO14131789 A1	20140904	WO2014EP53707	20140226

Priority:

US20130780747 20130228 WO2014EP53707 20140226

Probable Assignee: NOKIA SOLUTIONS AND NETWORKS OY

Assignee(s): (std): NOKIA SIEMENS NETWORKS OY ; NOKIA SOLUTIONS AND NETWORKS OY

Inventor(s): (std): RATASUK RAPEEPAT ; TAN JUN

Agent(s): BORGSTROEM MARKUS

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: **METHOD** FOR RESTRICTING THE CELL ACCESS OF A TERMINAL IN A **WIRELESS COMMUNICATION** SYSTEM, AND APPARATUS THEREFOR

Abstract: Source: US2013288679A [EN] The present application relates to a **method** in which a terminal performs a cell access procedure in a **wireless communication** system. More particularly, the **method** comprises: a step of receiving, from a first cell, a message including one or more access-restricting network identifiers or one or more access-restricting area identifiers; a step of restricting, for a predetermined period of time, access to at least one second cell belonging to the network corresponding to said one or more access-restricting network identifiers or the area corresponding to said one or more access-restricting area identifiers, as well as access to said first cell; and a step of restarting access to the first cell and to said at least one second cell after said predetermined period of time elapses.

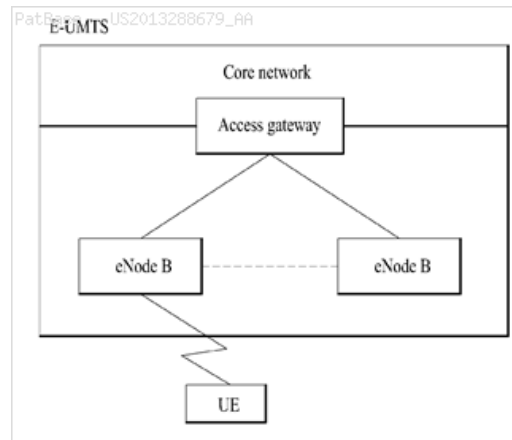
Classifications:

International (IPC 8-9): H04W48/02 H04W48/08 H04W48/16 H04W48/20 H04W76/00 (Advanced/Invention)

CPC: H04W48/16 H04W48/08 H04W48/02

European: H04W48/08

US: 1/1 455/435.1



Family:

Publication number	Publication date	Application number	Application date
KR101498090 B1	20150303	KR20137013371	20120110
KR20130086049 A	20130730	KR20137013371	20120110
US2013288679 AA	20131031	US20120979124	20120110
US9066280 BB	20150623	US20120979124	20120110
WO12096490 A2	20120719	WO2012KR00225	20120110
WO12096490 A3	20121206	WO2012KR00225	20120110

Priority:

US20110431411P 20110110 US20120979124 20120110 WO2012KR00225 20120110

Probable Assignee: LG ELECTRONICS INC

Assignee(s): (std): CHUN SUNGDUCK ; JUNG SUNGHOON ; LEE YOUNGDAE ; LG ELECTRONICS INC ; PARK SUNGJUN ; YI SEUNGJUNE

Inventor(s): (std): CHUN SUNG DUCK ; CHUN SUNGDUCK ; JUNG SUNG HOON ; JUNG SUNGHOON ; LEE YOUNG DAE ; LEE YOUNGDAE ; PARK SUNG JUN ; PARK SUNGJUN ; YI SEUNG JUNE ; YI SEUNGJUNE

Agent(s): MCKENNA LONG AND ALDRIDGE LLP; 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 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 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** FOR MACHINE TYPE **COMMUNICATION** USER EQUIPMENT TO CONNECT TO EVOLVED NODE-B AND APPARATUS EMPLOYING THE SAME

Abstract: Source: US2013182680A [EN] Provided are a **method** for machine type **communication** (MTC) user equipment (UE) to connect to an evolved Node-B (eNB) in a random access procedure, and an apparatus employing the **method**. The **method** for MTC UE to connect to an eNB includes receiving, at the MTC UE, system information or a handover command from the eNB, transmitting, at the MTC UE, a random access preamble to the eNB, receiving, at the MTC UE, a random access response message from the eNB, and transmitting, at the MTC UE, a connection request message or a handover confirm message including information about a dedicated bandwidth of the MTC UE to the eNB such that the MTC UE can be allocated the dedicated bandwidth. Using this **method**, an eNB is notified of a dedicated bandwidth of MTC UE, and thus can effectively utilize radio resources.

Classifications:

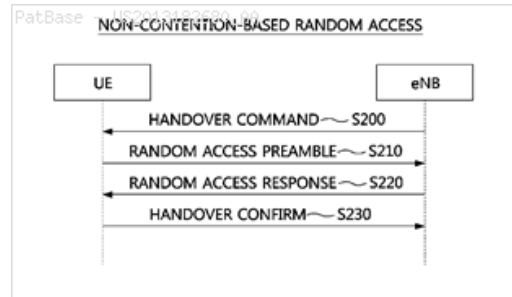
International (IPC 8-9): H04B7/26 H04W36/14

H04W74/08 (Advanced/Invention)

CPC: H04W36/14 H04W36/0077 H04W74/0833 H04W28/20 H04W72/0453

H04W76/10

US: 370/331



Family:

Publication number	Publication date	Application number	Application date
KR20130084956 A	20130726	KR20120061429	20120608
US2013182680 AA	20130718	US20120716883	20121217

Priority:

KR20120005796 20120118

KR20120061429 20120608

Probable Assignee: ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INST

Assignee(s): (std): ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INST KOREA ; KOREA ELECTRONICS TELECOMM

Assignee(s): ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INST ; ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE

Inventor(s): (std): CHOI SEUNG NAM ; KIM IL GYU

Title: **METHOD** AND APPARATUS FOR MOBILE TERMINAL CONNECTED MODE MOBILITY

Abstract: Source: US2015079991A [EN] In accordance with an example embodiment of the present invention, a **method** comprises determining measurement reporting trigger conditions of at least one of a configured cell, a configured frequency or a configured radio access technology; determining whether a threshold has been met based on the measurement reporting trigger conditions with respect to the at least one of the configured cell, the configured frequency or the configured radio access technology; and causing a handover to a candidate cell in an instance in which a threshold is satisfied. Related apparatus and computer program product are also described.

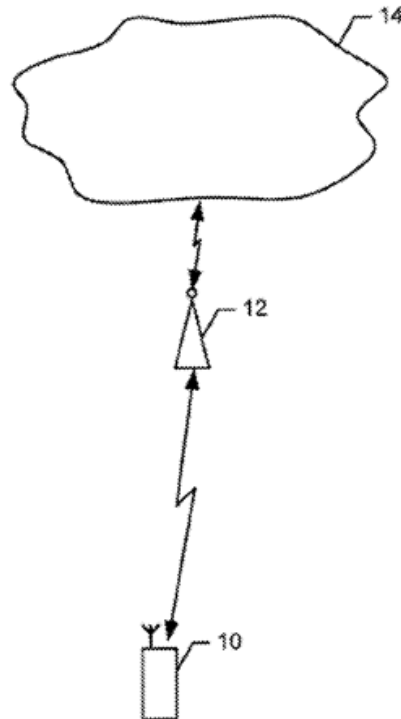
Classifications:

International (IPC 8-9): H04W36/00 H04W36/36 (Advanced/Invention);
H04W36/36 (Advanced/Non-invention)

CPC: H04W36/24 H04W36/0083 H04W36/36

US: 455/436

PatBase - US2015079991_AA



Family:

Publication number	Publication date	Application number	Application date
CN103797849 A	20140514	CN201280044363	20120831
CN107105460 A	20170829	CN201710205972	20120831
EP2740295 A1	20140611	EP20120831753	20120831
EP2740295 A4	20150527	EP20120831753	20120831
US2015079991 AA	20150319	US20120344225	20120831
WO13038052 A1	20130321	WO2012FI50844	20120831

Priority:

CN201280044363 20120831 US20110533458P 20110912 WO2012FI50844 20120831
US20120344225 20120831

Probable Assignee: NOKIA TECHNOLOGIES OY

Assignee(s): (std): DALSGAARD LARS ; KESKITALO ILKKA ANTERO ; KOSKELA JARKKO TUOMO ; KOSKINEN JUSSI PEKKA ;
NOKIA CORP

Assignee(s): NOKIA TECHNOLOGIES OY

Inventor(s): (std): DALSGAARD LARS ; KESKITALO ILKKA ANTERO ; KOSKELA JARKKO TUOMO ; KOSKINEN JUSSI PEKKA

Agent(s): TOGNETTY VIRPI MARIA; NOKIA ET AL CORP

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
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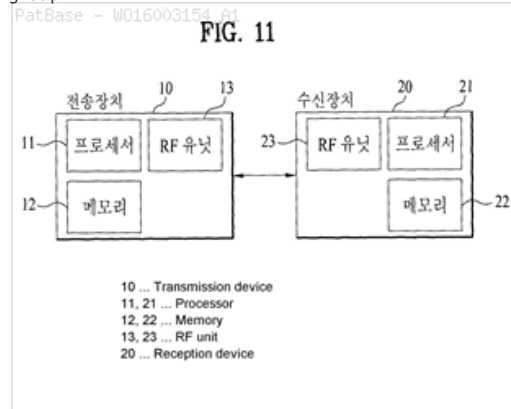
Title: **METHOD** FOR RECEIVING REFERENCE SIGNAL IN **WIRELESS COMMUNICATION** SYSTEM AND APPARATUS THEREFOR

Abstract: A **method** for receiving a reference signal for defining a location in a **wireless communication** system according to one embodiment of the present invention comprises the steps of: receiving, from a serving cell, beacon-positioning reference signal (B-PRS) configuration information transmitted by at least one beacon device; and detecting the B-PRS by using the B-PRS configuration information, wherein the B-PRS configuration information includes B-PRS group configuration information for at least one beacon device group, and the B-PRS group configuration information can include parameters for generating sequences of the B-PRS transmitted by each beacon device belonging to the corresponding group.

Classifications:

International (IPC 8-9): G01S1/04 (Advanced/Invention)

CPC: G01S1/04 G01S1/042 G01S1/20 G01S5/0221 G01S5/0236



Family:

Publication number	Publication date	Application number	Application date
EP3165938 A1	20170510	EP20150814039	20150630
WO16003154 A1	20160107	WO2015KR06694	20150630

Priority:

US20140021020P 20140704 WO2015KR06694 20150630

Probable Assignee: LG ELECTRONICS INC

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

Inventor(s): (std): KIM KIJUN ; PARK JONGHYUN ; SEO HANBYUL

Agent(s): CABINET PLASSERAUD; 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 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