

Search history

Search PN=(WO2017119490) (Results 1)

1:

Search [SP]: base station, user apparatus and context information retaining method
2: a base station in a mobile communication system that supports a function to reuse context information retained in each of a user apparatus and the base station to establish a connection is disclosed including a deletion unit configured to delete predetermined information in the context information associated with the user apparatus when the user apparatus ends a connected state in a condition where the base station retains the context information associated with the user apparatus, and an acquisition unit configured to acquire the predetermined information from a communication control apparatus that retains the predetermined information in the mobile communication system when the user apparatus restarts the connected state. (Results 0)

Search [SP]: 1. a base station in a mobile communication system that supports a function to reuse context information retained in each of a user apparatus and the base station to establish a connection, the base station comprising: a deletion unit configured to delete predetermined information in the context information associated with the user apparatus when the user apparatus ends a connected state in a condition where the base station retains the context information associated with the user apparatus and an acquisition unit configured to acquire the predetermined information from a communication control device that retains the predetermined information in the mobile communication system when the user apparatus resumes the connected state.2. the base station according to claim 1, wherein the acquisition unit transmits a signal indicating resuming of the connected state to the communication control device and receives a response signal including the predetermined information from the communication control device.3. the base station according to claim 2, wherein the signal indicating resuming of the connected state includes an identifier of the user apparatus, and the communication control device extracts the predetermined information based on the identifier of the user apparatus.4. the base station according to claim 1, further comprising: a transmitter that transmits the predetermined information to the communication control device when the user apparatus ends the connected state.5. the base station according to claim 1, wherein the predetermined information is capability information of the user apparatus.6. the base station according to claim 5, wherein when the capability information has a reduced size, the deletion unit does not delete the capability information, and the acquisition unit does not acquire the capability information.7. the base station according to claim 6, wherein the reduced capability information does not include information on capabilities provided by default in the user apparatus.8. a context information retaining method executed by a base station in a mobile communication system that supports a function to reuse context information retained in each of a user apparatus and the base station to establish a connection, the context information retaining method comprising: deleting predetermined information in the context information associated with the user apparatus when the user apparatus ends a connected state in a condition where the base station retains the context information associated with the user apparatus and acquiring the predetermined information from a communication control device that retains the predetermined information in the mobile communication system when the user apparatus resumes the connected state.9. a context information retaining method executed by a communication control device and a base station in a mobile communication system that supports a function to reuse context information retained in each of a user apparatus and the base station to establish a connection, the context information retaining method comprising: deleting, by the base station, predetermined information in the context information associated with the user apparatus when the user apparatus ends a connected state in a condition where the base station retains the context information associated with the user apparatus transmitting, by the base station, a signal indicating resuming of the connected state to the communication control device when the user apparatus resumes the connected state and receiving, by the communication control device, the signal indicating resuming of the connected state and transmitting, by the communication control device, a response signal including the predetermined information to the base station.10. a user apparatus in a mobile communication system including a base station and a user apparatus for narrow band internet of things (nb-iot), comprising: a receiver that receives a ue capability request from the base station and a transmitter that transmits, to the base station, ue capability information of the user apparatus according to reception of the ue capability request, wherein the ue capability information includes a ue category for nb-iot, but does not include a parameter of feature group indicators (fgi) and a parameter of a measurement gap.11. the base station according to claim 2, further comprising: a transmitter that transmits the predetermined information to the communication control device when the user apparatus ends the connected state.12. the base station according to claim 3, further comprising: a transmitter that transmits the predetermined information to the communication control device when the user apparatus ends the connected state.13. the base station according to claim 2, wherein the predetermined information is capability information of the user apparatus.14. the base station according to claim 3, wherein the predetermined information is capability information of the user apparatus.15. the base station according to claim 4, wherein the predetermined information is capability information of the user apparatus. (Results 0)

Search 4: [SP]: cross reference to related applications[0001] the present patent application is a national phase application of pct/jp2017/000294 filed on jan. 6, 2017 which claims priority to japanese patent application no. 2016-002128, filed on jan. 7, 2016. the contents of these applications are incorporated by reference in their entirety. field of the invention[0002] the present invention relates to a technology for enabling each of a user apparatus user equipment (ue) and a base station enb in a mobile communication system to retain a ue context. background[0003] in an long-term evolution (lte) system, there are two states representing a connection status between a user apparatus ue (hereinafter referred to as "ue") and a base station enb (hereinafter referred to as "enb"). those two states are a radio resource control (rrc) idle state (rrc_idle) and an rrc connected state (rrc_connected).[0004] a ue context is generated at the time at which a ue connects to the network, and the ue context is retained in the enb connected to the ue and in the ue. the ue context indicates information including bearer related information, security related information, and the like.[0005] when the ue transits between the rrc idle state and the rrc connected state, a large number of call control signaling occurs including call control signaling occurring on a core network (nw). hence, an attempt has been made to reduce the amount of signaling.[0006] for example, signaling such as that illustrated in fig. 1 occurs (non-patent document 1, etc.) when the ue is made to transition from the rrc connected state to the rrc idle state. fig. 1 illustrates a case where an enb 2 detects that a ue 1 has not performed communications for a predetermined time, and disconnects the connection from the ue 1 so that the ue 1 transitions from the rrc connected state to the rrc idle state.[0007] in fig. 1, the enb 2 transmits a ue context release request to a mobility management entity (mme) 3 (step s1). the mme 3 transmits a release access bearers request to a serving gateway (s-gw) 4 (step s2), and the s-gw 4 returns a release access bearers response to the mme 3 (step s3).[0008] the mme 3 transmits a ue context release command to the enb 2 (step s4). the enb 2 transmits an rrc connection release to the ue 1 (step s5), causing the ue 1 to release the ue context, and makes the ue 1 transition to the rrc idle state. in addition, the enb 2 releases the ue context and transmits a ue context release complete to the mme 3 (step s6). related-art documents non-patent documents [non-patent document 1] 3gpp ts 36.413 v12.4.0 (2014-12) [non-patent document 2] 3gpp tsg ran meeting #66 rp-142030 maui, usa, 8th-11th december 2014 [non-patent document 3] 3gpp tr 23.720 v1.1.0 (2015-10) [non-patent document 4] 3gpp tsg-ran wg3 meeting #90 r3-152688 anaheim, calif., u.s., 16th-20th november 2015 [non-patent document 5] 3gpp ts 36.331 v12.6.0 (2015-06) summary [0014] in accordance with one or more embodiments of the present invention, a base station in a mobile communication system that supports a function to reuse context information retained in each of a user apparatus and the base station to establish a connection is disclosed. the base station includes a deletion unit configured to delete a predetermined information in the context information associated with the user apparatus when the user apparatus ends a connected state in a condition where the base station retains the context information associated with the user apparatus and an acquisition unit configured to acquire the predetermined information from a communication control device that retains the predetermined information in the mobile communication system when the user apparatus resumes the connected state. [0015] in some aspects, the acquisition unit transmits a signal indicating resuming of the connected state to the communication control device and receives a response signal including the predetermined information from the communication control device. [0016] in some aspects, the signal indicating resuming of the connected state includes an identifier of the user apparatus, and the communication control device extracts the predetermined information based on the identifier of the user apparatus. [0017] in some aspects, a transmitter that transmits the predetermined information to the communication control device when the user apparatus ends the connected state. [0018] in some aspects, the predetermined information is capability information of the user apparatus. [0019] in some aspects, when the capability information has a reduced size, the deletion unit does not delete the capability information, and the acquisition unit does not acquire the capability information. [0020] in some aspects, the reduced capability information does not include information on capabilities provided by default in the user apparatus. [0021] in accordance with one or more embodiments of the present invention, a context information retaining method executed by a base station in a mobile communication system that supports a function to reuse context information retained in each of a user apparatus and the base station to establish a connection is disclosed. the context information retaining method includes deleting predetermined information in the context information associated with the user apparatus when the user apparatus ends a connected state in a condition where the base station retains the context information associated with the user apparatus and acquiring the predetermined information from a communication control device that retains the predetermined information in the mobile communication system when the user apparatus resumes the connected state. [0022] in accordance with one or more embodiments of the present invention, a context information retaining method executed by a communication control device and a base station in a mobile communication system that supports a function to reuse context information retained in each of a user apparatus and the base station to establish a connection is

disclosed. the context information retaining method includes that the base station deletes predetermined information in the context information associated with the user apparatus when the user apparatus ends a connected state in a condition where the base station retains the context information associated with the user apparatus. the base station transmits a signal indicating resuming of the connected state to the communication control device when the user apparatus resumes the connected state. the communication control device receives the signal indicating resuming of the connected state and transmitting, by the communication control device, a response signal including the predetermined information to the base station.[0023] in accordance with one or more embodiments of the present invention, a user apparatus in a mobile communication system including a base station and a user apparatus for narrow band internet of things (nb-iot) is disclosed. the mobile communication system includes a receiver that receives a ue capability request from the base station, and a transmitter that transmits, to the base station, ue capability information of the user apparatus according to reception of the ue capability request. the ue capability information includes a ue category for nb-iot, but does not include a parameter of feature group indicators (fgi) and a parameter of a measurement gap.brief description of the drawings[0024] fig. 1 is a diagram illustrating an example of a signaling sequence in a case where a ue transitions to an rrc idle state[0025] fig. 2 includes diagrams illustrating a process example in a case of retaining a ue context[0026] fig. 3 is a configuration diagram of a communication system according to an embodiment of the present invention[0027] fig. 4 is a diagram illustrating a process sequence example of an overall system in a first embodiment of the present invention[0028] fig. 5 is a diagram illustrating a process sequence example of an overall system in the first embodiment of the present invention[0029] fig. 6 is a diagram illustrating one or more embodiments of a ue context suspend procedure[0030] fig. 7 is a diagram illustrating one or more embodiments of a ue context resume procedure[0031] fig. 8 is a diagram illustrating an example of a ue capability transmission procedure[0032] fig. 9 is a diagram illustrating one or more embodiments of a ue context resume request message[0033] fig. 10 is a diagram illustrating one or more embodiments of a ue context resume response message[0034] fig. 11 is a diagram illustrating one or more embodiments of a ue context suspend request message[0035] fig. 12 is a diagram illustrating one or more embodiments of a ue context suspend response message[0036] fig. 13 is a diagram illustrating a process sequence example of an overall system in a second embodiment of the present invention[0037] fig. 14 is a diagram illustrating a connection establishment procedure in the second embodiment of the present invention[0038] fig. 15 is a diagram illustrating a connection release procedure in the second embodiment of the present invention[0039] fig. 16a is a diagram illustrating one or more embodiments of a modified specification example relating to ue capability[0040] fig. 16b is a diagram illustrating one or more embodiments of (Results 6)

Search MOBIL* AND WIRELESS AND BASE STATION AND REUS* AND CONTEXT INFORMATION (Results 890)
5:

Search TAC=(MOBIL* AND WIRELESS AND BASE STATION AND REUS* AND CONTEXT INFORMATION) (Results 13)
6:

Search 5 and PD<20160107 (Results 621)
7:

Search 6 and 7 (Results 12)
8:

1) Family number: 48873190 (US2012276913A)

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

Abstract: A method and an apparatus for transmitting data in a wireless communication network are provided. A base station having information of an idle mode user equipment transmits a connecting operation mode to the user equipment when the idle mode user equipment is connected to the base station. The user equipment transmits a small amount of data together with a connection request completion message to the base station. The base station transmits, over a network, the data received from the user equipment, without being interlinked with a mobility management entity, and the user equipment returns back to an idle operation mode after data transmission. Thus, the overhead required to support signaling of the base station for acquiring context information of the user equipment can be reduced in order to provide the user equipment with an efficient data transmission environment.

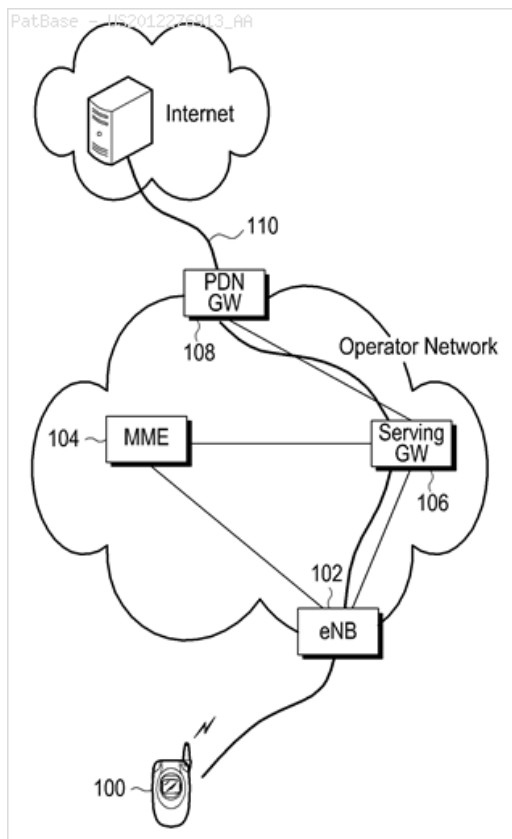
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European: H04W76/02 T04W4/14

US: 370/328 370/329 455/436 455/450 455/456.1



Family:

Publication number	Publication date	Application number	Application date
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Priority:

KR20090105866 20091104 KR20100014703 20100218 WO2010KR07758 20101104

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

2) Family number: 48343208 (US2011044183A)

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Title: RESOURCE METRIC QUANTIZATION IN WIRELESS DATA COMMUNICATIONS

Abstract: A resource metric quantization is described that has use for resources of wireless data communications system. In one example the quantization include measuring a signal parameter for a plurality of frequency partitions, setting a first resource metric for a first frequency partition equal to a first value, determining a second and a third resource metric for a second and third frequency partition, respectively, based on comparing the measured signal parameter for the second and third frequency partitions to the measured signal parameter for the first partition, encoding a second and a third resource metric, and transmitting the encoded resource metrics to a remote wireless station.

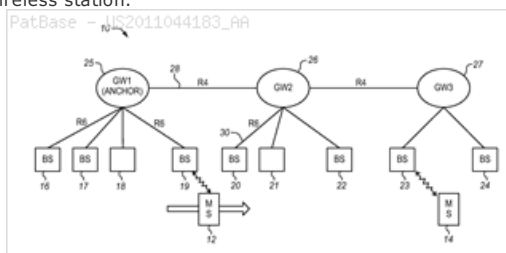
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International (IPC 1-7): H04B7/26

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Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: INTEL CORP

Assignee(s): (std): AHMADI SASSAN ; BERGMAN ARAN ; CHEN KUILIN ; ETEMAD KAMRAN ; HAREL TOM ; HUANG QIUPING ; INTEL CORP ; JAIN PUNEET K ; HSUAN YI ; LOMNITZ YUVAL ; SHRIVASTAVA SHWETA ; SHARAGA AVISHAY ; TAAGHOL POUYA ; MOHANTY SHANTIDEV ; ZHU YUAN ; WANG PING ; YIN HUJUN ; YANG XIANGYING ; VENKATACHALAM MUTHAIAH ; VANNITHAMBY RATH

Assignee(s): INTEL KORPOREJSN

Inventor(s): (std): AHMADI SASSAN ; AKHMADI SASSAN ; ARAN BERGMAN ; BERGMAN ARAN ; CHEN KUILIN ; EHEMAD KAMRAN ; ETEMAD KAMRAN ; HAREL TOM ; HUANG QIUPING ; IN KHUTSZJUN ; JAIN PUNEET K ; JAN SJANIN ; KAMRAN ETEMAD ; KHSUAN I ; LOMNITZ YUVAL ; MOHANTY SHANTIDEV ; MOKHANTY SHANTIDEV ; MUTHAIAH VENKATACHALAM ; POUYA TAAGHOL ; RATH VANNITHAMBY ; SASSAN AHMADI ; SASSAN AHMADI S ; SHANTIDEV MOHANTY ; SHARAGA AVISHAY ; SHRIVASTAVA SHWETA ; SHWETA SHRIVASTAVA ; TAAGHOL POUYA ; TAAGKHOL POJA ; TOM HAREL ; VAN PIN ; VANNITHAMBY RATH ; VENKATACHALAM MUTKHAIAKH ; VENKATAKKHALAM MUTKHAIAKH ; XIANGYING YANG ; YUVAL LOMNITZ ; ZHU YUAN ; YUAN ZHU ; YI HSUAN ; QIUPING HUANG ; PING WANG ; KUILIN CHEN ; HUJUN YIN ; YANG XIANGYING ; VENKATACHALAM MUTHAIAH ; YIN HUJUN ; WANG PING ; HSUAN YI

Agent(s): HUTCHINSON GLENN STANLEY; JENNINGS VINCENT LOUIS; HUFTON DAVID ALAN; BENSON CHRISTOPHER; NTD PATENT AND TRADE MARK AGENCY LTD; RYUKA IP LAW FIRM; MISSION/BSTZ, BLAKELY SOKOLOFF TAYLOR AND ZAFMAN LLP; MISSION BSTZ BLAKELY SOKOLOFF TAYLOR AND ZAFMAN LLP; KACVINSKY DAISAK PLLC; INTEL C O CPA GLOBAL CORP; TROP PRUNER AND HU PC; CAVEN AND AGHEVLI LLC, C/O CPA GLOBAL; CAVEN AND AGHEVLI LLC C O CPA GLOBAL; SHILOH ET AL; GLEN B; SHICHRUR AND CO; BLAKELY SOKOLOFF TAYLOR AND ZAFMAN LLP; SCHWEGMAN LUNDBERG AND WOESSNER P A; SCHWEGMAN LUNDBERG AND WOESSNER PA; CAVEN AND AGHEVLI LLC; SCHWABE WILLIAMSON AND WYATT PC; COOL PATENT PC; KACVINSKY JOHN ET AL; VINCENT LESTER J ET AL; SHICHRUR NAIM AVRAHAM ET AL; TROP TIMOTHY N 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 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: SWITCH SUPPORTING METHOD

Abstract: The present application discloses a switch supporting method comprising: an eNB sends a path switching request message to an MME to notify the MME of information on a bearer remaining unchanged; the MME reserves the bearer remaining unchanged and does not trigger a deactivation process for the bearer remaining unchanged; the MME sends a modify bearer request message to an SGW. With the present application, data loss can be avoided and service continuity is ensured when a UE moves in a small cell scenario.

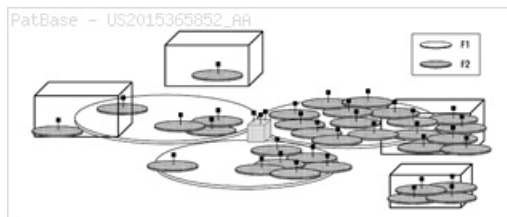
Classifications:

International (IPC 8-9): H04L5/00 H04W H04W36/00 H04W36/08 H04W36/34 H04W76/04 H04W76/06 (Advanced/Invention); H04W76/02 (Advanced/Non-invention); H04W (Subclass/Invention)

CPC: H04W36/0027 H04L5/0053 H04W76/04 H04W76/064

H04W76/021 H04W76/11 H04W76/20 H04W76/34 H04W36/0069

US: 370/331

**Family:**

Publication number	Publication date	Application number	Application date
CN104066133 A	20140924	CN201310092326	20130321
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US2015365852 AA	20151217	US20140770693	20140312
US2016029255 AA	20160128	US20150878667	20151008
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Priority:

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US20150878667 20151008

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): 12A ; BEIJING SAMSUNG COMMUNICATION TECHNOLOGY RESEARCH INST ; BEIJING SAMSUNG TELECOM R AND D CT ; SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO ; BEIJING SAMSUNG TELECOM R AND D CENTER

Inventor(s): (std): KE XIAOWAN ; WANG HONG ; XU LIXIANG

Agent(s): GULDE AND PARTNER; JEFFERSON IP LAW LLP; 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 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

4) Family number: 40814362 (WO07128240A1)

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Title: METHOD FOR THE TERMINALS IN WIRELESS MAN TO ENTER IDLE MODE

Abstract: A method in which the terminal in wireless MAN enters a idle mode comprises that: the mobile terminal initiates a request message for entering the idle mode to a base station BS/paging agent PA; the said BS/PA responds to the request message sent from the mobile terminal, informs the data channel function unit to release the link of the said mobile terminal after the anchor PC determines that the said mobile terminal is permitted to enter the idle mode; after the releasing of the link of the mobile terminal is completed, the BS/PA sends a de-registration command indicating that the location update is successful to the mobile terminal; the BS/PA sends a confirmation message to the foreign agent FA, the mobile terminal information confirmation message is sent to the anchor paging controller PC/location register LR by the foreign agent to save the context of the mobile terminal, and to perform the data update. The invention increases the integrity and the stability of the procedure in which the said terminal enters idle mode.

Classifications:

International (IPC 8-9): H04L12/28 H04L29/06 H04Q7/38 H04W28/16 H04W4/06 H04W60/00 H04W60/04 H04W60/06 (Advanced/Invention); H04W76/04 H04W76/06 (Advanced/Non-invention); H04L12/28 H04L29/06 H04Q7/38 H04W60/00 (Core/Invention); H04W76/00 (Core/Non-invention)

CPC: H04W76/20 H04W76/30 H04W60/04 H04W60/06

European: H04W60/04 H04W60/06 T04W76/04 T04W76/06



Publication number	Publication date	Application number	Application date
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DE60030879 D1	20061102	DE20006030879T	20001101
DE60030879 T2	20070104	DE20006030879T	20001101
EP1232611 A1	20020821	EP20000975540	20001101
EP1232611 A4	20030129	EP20000975540	20001101
EP1232611 B1	20060920	EP20000975540	20001101
JP2003514443 T2	20030415	JP20010537214T	20001101
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KR100651621 B1	20061130	KR20027006100	20001101
KR20020058007 A	20020712	KR20027006100	20001101
WO0135586 A1	20010517	WO2000US30181	20001101

Priority:

US1990439625 19991112 WO2000US30181 20001101 KR20027006100 20020511

Probable Assignee: MOTOROLA INC

Assignee(s): (std): MOTOROLA INC

Assignee(s): MOTOROLA MOBILITY INC ; MOTOROLA MOBILITY LLC

Inventor(s): (std): ANTONY SUSAI ; GUPTA SANJAY ; SANJAY GUPTA ; SPEAR STEPHEN ; STEPHEN SPEAR ; SUSAI ANTONY

Designated states: AT BE BR CH CY DE DK ES FI FR GB GR IE IT JP KR LI LU MC NL PT SE TR

6) Family number: 60335597 (US2017013519A)

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Title: METHOD AND APPARATUS FOR PERFORMING HANDOVER IN WIRELESS COMMUNICATION SYSTEM

Abstract: A method for perform pre-processing for handover of a moving cell by a serving base station, the method comprises transmitting a handover pre-processing request message including information on a handover history of the moving cell, to at least one neighboring base station adjacent to the serving base station; receiving a pre-processing response message including at least one of a random access preamble allocated from the neighboring base station, radio resource control (RRC) configuration of the neighboring base station and system information of the neighboring base station, from the neighboring base station; and transmitting the pre-processing response message to the moving cell before handover of the moving cell is initiated.

Classifications:

International (IPC 8-9): H04W36/00 H04W36/08 H04W36/14

H04W36/16 H04W36/18 H04W36/32 H04W36/34 H04W72/04

H04W74/08 H04W76/04 H04W76/27 H04W84/00

H04W92/20 (Advanced/Invention);

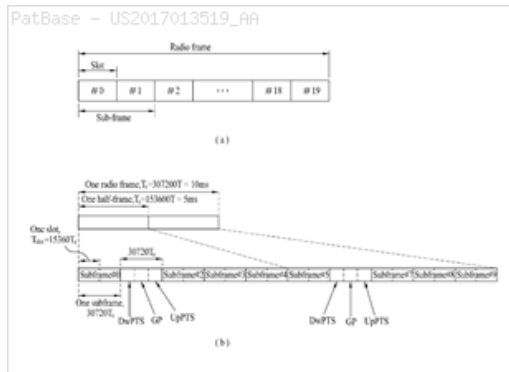
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CP: H04W36/08 H04W36/32 H04W36/34 H04W36/0016

H04W74/0833 H04W36/14 H04W84/005 H04W36/0055 H04W36/0094

H04W36/0077 H04W84/047 H04W76/27 H04W76/046 H04W36/16

US: 370/331 455/436



Family:

Publication number	Publication date	Application number	Application date
CN106063329 A	20161026	CN201580011626	20150217
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EP3114881 A1	20170111	EP20150758261	20150217
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Priority:

US20140948552P 20140306 US20140952883P 20140314 EP20150758043 20150213
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Probable Assignee: LG ELECTRONICS INC

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

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

Agent(s): TER MEER STEINMEISTER AND PARTNER PATENTANWALTE MBB; CABINET PLASSERAUD; TER MEER STEINMEISTER AND PARTNER; AOKI ATSUSHI; TSURUTA JUNICHI; DENTONS US LLP; BIRCH STEWART

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

7) Family number: 50504625 (US2012047227A)

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Title: VIRTUAL ACCESS MODULE DISTRIBUTION APPARATUS AND METHODS

Abstract: Apparatus and methods for distributing electronic access client modules for use with electronic devices. In one embodiment, the access client modules are virtual subscriber identity modules (VSIMs) that can be downloaded from online services for use with cellular-equipped devices such as smartphones. The online services may include a point of sale (POS) system that sells electronic devices to users. A broker may be used to facilitate the selection of a virtual subscriber identity module. A provisioning service may also be used to provision the selected VSIM.

Classifications:

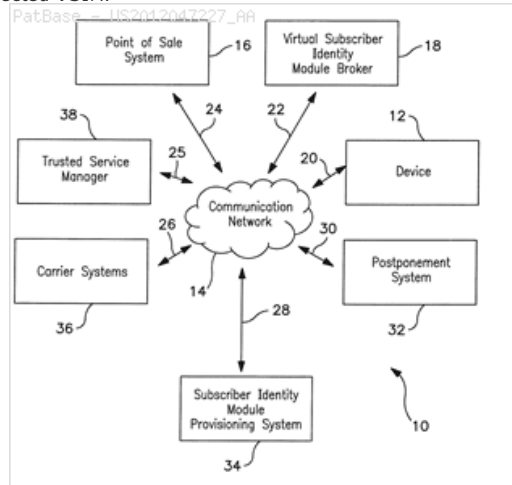
International (IPC 8-9): G06F G06F12/02 G06F13/00 G06F13/14 G06F15/16 G06F17/00 G06F17/30 G06F17/50 G06F21/00 G06F21/30 G06F21/34 G06F21/35 G06F21/45 G06F21/57 G06F3/06 G06F7/04 G06F9/00 G06Q30/02 G06Q30/06 G09C1/00 H04B1/38 H04B1/3816 H04L H04L12/00 H04L12/28 H04L29/06 H04L29/08 H04L9/00 H04L9/32 H04M1/00 H04M1/02 H04M1/66 H04M1/675 H04M11/00 H04M15/00 H04M3/42 H04Q7/10 H04W H04W12/02 H04W12/04 H04W12/06 H04W12/08 H04W12/10 H04W24/00 H04W36/14 H04W36/34 H04W4/00 H04W4/02 H04W4/08 H04W4/50 H04W4/80 H04W48/02 H04W48/18 H04W8/00 H04W8/02 H04W8/12 H04W8/18 H04W8/20 H04W8/22 H04W8/24 H04W8/26 H04W88/00 H04W88/02 H04W88/06 H04W88/10 H04W88/18 H04W92/08 H04W92/14 (Advanced/Invention);

H04L29/08 H04W12/04 H04W4/00 H04W4/60 H04W8/18 H04W8/20 H04W8/26 (Advanced/Non-invention)

CPC: H04B1/3816 H04L63/18 H04L63/0823 H04L63/20 G06F21/34 G06Q30/06 H04L67/34 H04M15/77 H04M15/771 H04L63/08 G06F12/0246 G06F2212/177 G06F2212/7211 G06F21/35 H04W8/265 H04W12/04 G06F3/0604 G06F3/0631 G06F3/0664 G06F3/067 G06F3/0679 H04L63/123 H04L63/0876 H04W8/183 G06F21/45 G06F21/57 H04W88/06 H04W12/08 H04W8/20 H04W36/14 H04W8/18 H04W48/18 H04W4/80 H04W4/001 H04W4/003 H04L63/0428 H04L63/0853 H04W12/06 H04L9/3234 H04W4/50 H04W4/60 H04W8/205

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Family:

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Probable Assignee: APPLE INC

Assignee(s): (std): EHPPL INK ; HAGGERTY DAVID ; HAGGERTY DAVID T ; MATHIA ARUN G ; MATHIAS ARUN G ; HAUCK JERROLD VON ; LI LI ; JUANG BEN HENG ; HAUCK JERROLD V ; MATHIAS ARUN ; SCHELL STEPHAN V ; VON HAUCK JERROLD ; SCHELL STEPHEN V ; MCLAUGHLIN KEVIN ; VON HAUCK FERROLD ; APPLE INC

Assignee(s): APPLE INC CUPERTINO

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BRAND LLP; DICKINSON WRIGHT RLLP; GAZDZINSKI ROBERT F

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

8) Family number: 44664660 (US2010075675A)

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Title: ROBUST AND FAST INTER-EBS HANDOFF MECHANISM

Abstract: A communications system provides a robust and fast inter-base station handoff mechanism, e.g. for networks using Enhanced Base Stations (EBS) equipment. A method for connecting a mobile device to a destination base station in the wireless communications system, may include steps of receiving a mobile device measurement report, transferring context information from a serving base station to possible target base stations, and receiving admission control information from possible target base stations. A priority list of the possible target base stations is calculated and sent to the mobile device. The mobile device connects to one or more of possible target base stations according to the priority list. The method may also entail receiving a release message from one of the possible target base stations to which the mobile device has successfully established a wireless connection, to allow release of resources of the prior serving base station.

Classifications:

International (IPC 8-9): H04Q7/20 H04W24/10 H04W36/00

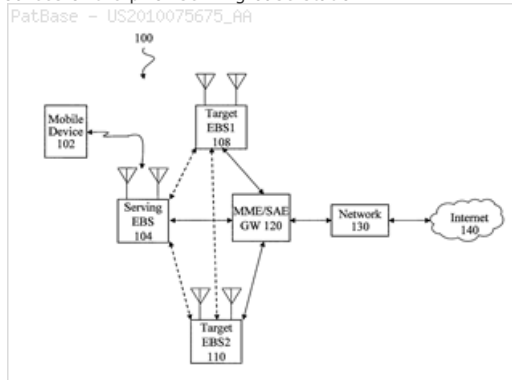
H04W36/08 H04W36/30 (Advanced/Invention);

H04W36/00 (Core/Invention)

CPC: H04W36/0094

European: H04W36/00P8E

US: 370/331 370/332 455/436 455/436P 455/440



Family:

Publication number	Publication date	Application number	Application date
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Priority:

US20080235019 20080922 EP20090814945 20090730 WO2009US52260 20090730
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Probable Assignee: CELLCO PARTNERSHIP D B A VERIZON WIRELESS

Assignee(s): (std): CELLCO PARTNERSHIP DBA VERIZON ; YANG JIN ; ZONG PINGPING

Assignee(s): CELLCO PARTNERSHIP ; CELLCO PARTNERSHIP D B A VERIZON WIRELESS ; CELLCO PARTNERSHIP D B A VERIZON WIRELESS BASKING RIDGE

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Inventor(s): ZONG PINGPING RANDOLPH ; YANG JIN ORINDA

Agent(s): ROBIC; MUELLER BORE AND PARTNER PATENTANWALTE; MUELLER BORE AND PARTNER
PATENTANWALTE PARTG MBB; MCDERMOTT WILL AND EMERY LLP; GEORGE KEITH E

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

9) Family number: 54417688 (US2013331105A)

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Title: IDENTIFYING MOBILE STATION IN A CELLULAR WIRELESS COMMUNICATION SYSTEM

Abstract: A method of facilitating identification of a user equipment (UE) is disclosed. A first network control node (NCN) receives an radio link failure (RLF) indication message including a first mobile identity indicator (MII) of a UE. The first NCN determines a second MII of the UE, the second MII being associated with the first MII, and a second NCN associated with the second MII. And the first NCN sends the second MII to the second NCN.

Classifications:

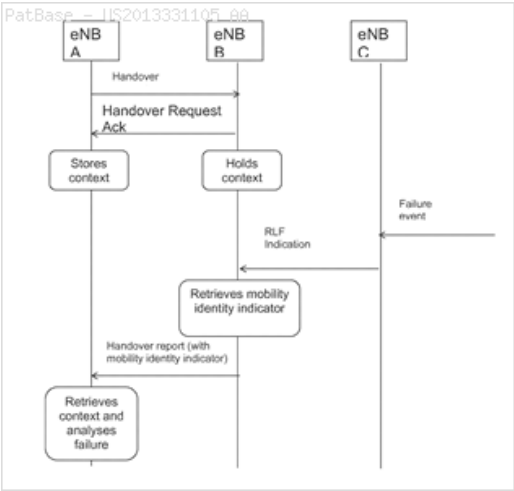
International (IPC 8-9): H04W24/00 H04W24/02 H04W36/00

H04W36/08 H04W36/30 H04W36/38 H04W8/26 H04W88/12

H04W92/20 H04W92/22 (Advanced/Invention);

H04W36/08 H04W8/26 H04W88/12 (Advanced/Non-invention)

CPC: H04W8/26 H04W36/0005 H04W88/12 H04W36/38



Family:

Publication number	Publication date	Application number	Application date
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Priority:

EP20120701882 20120127 WO2012EP51279 20120127 WO2012EP51279 20130127
US20130901808 20130524 US20150883218 20151014

Probable Assignee: HUAWEI TECHNOLOGIES CO LTD

Assignee(s): (std): HUAWEI TECH CO LTD ; LEGG PETER ; OLOFSSON HENRIK

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

Inventor(s): (std): LEGG PETER ; OLOFSSON HENRIK

Inventor(s): PETER LEGG ; HENRIK OLOFSSON

Agent(s): KOERBER MARTIN HANS; OHNUKI SHINSUKE; ITOH TADAHIKO; ITOH TADASHIGE; SLATER AND MATSIL LLP; SLATER MATSIL LLP; KREUZ GEORG M

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

10) Family number: 52666690 (US2014204733A)

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Title: MOBILE COMMUNICATION METHOD, MOBILE STATION, AND RADIO BASE STATION

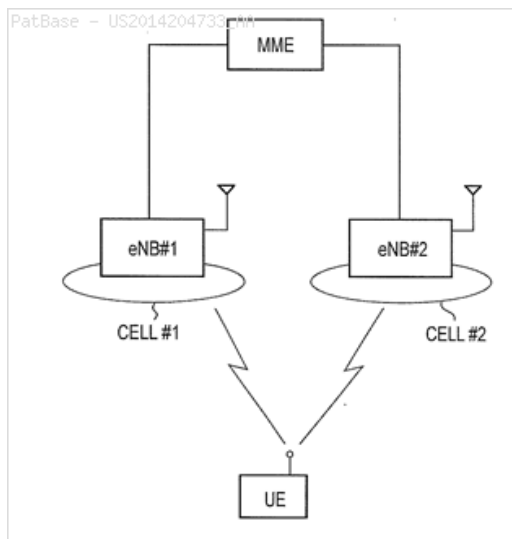
Abstract: A reconnection procedure is successfully performed even when a connection destination radio base station does not manage "UE Context" for a mobile station UE. A mobile communication method according to the present invention includes a step B in which the mobile station UE transmits CGI of cell #1 to a radio base station eNB#2 in the reconnection procedure, and a step C in which the radio base station eNB#2 acquires "UE Context" for the mobile station UE from a radio base station eNB#1 managing cell #1 designated based on the CGI when not managing "UE Context" for the mobile station UE in the reconnection procedure.

Classifications:

International (IPC 8-9): H04L12/24 H04W36/00 H04W36/08
H04W36/36 H04W76/02 H04W84/10 H04W92/20 (Advanced/Invention)

CPC: H04W36/0033 H04L41/0668 H04W36/36 H04L41/0654
H04W36/305

US: 1/1 370/221 370/225



Family:

Publication number	Publication date	Application number	Application date
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WO13002166 A1	20130103	WO2012JP66122	20120625

Priority:

JP20110144419 20110629 WO2012JP66122 20120625 US20130129466 20131226
 JP20160041494 20160303 US20160258206 20160907

Probable Assignee: NTT DOCOMO INC

Assignee(s): (std): HIDEAKI TAKAHASHI ; IWAMURA MIKIO ; NTT DOCOMO INC ; TAKAHASHI HIDEAKI

Assignee(s): N A

Inventor(s): (std): IWAMURA MIKIO ; TAKAHASHI HIDEAKI

Agent(s): MIYOSHI HIDEKAZU; OSHA LIANG LLP; MIYOSHI HIDEKAZU 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 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

11) Family number: 34858691 (US2009005050A)

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Title: METHOD FOR HANDOVER IN MOBILE COMMUNICATION SYSTEM

Abstract: A method for handover in a mobile communication system is disclosed, by which traffic is transmitted on an optimal path. In a communication system including at least one radio network node communicating with a mobile terminal and an access node controlling the radio network node, the present invention includes the steps of making a request for the handover of the mobile terminal to a specific second radio network node and the access node from a first radio network node communicating with the mobile terminal, notifying the first radio network node and the access node of a result of the handover request by the second radio network node, and controlling traffic transmissions to the first radio network node and the second radio network node according to the handover request and a result notification of the handover by the access node.

Classifications:

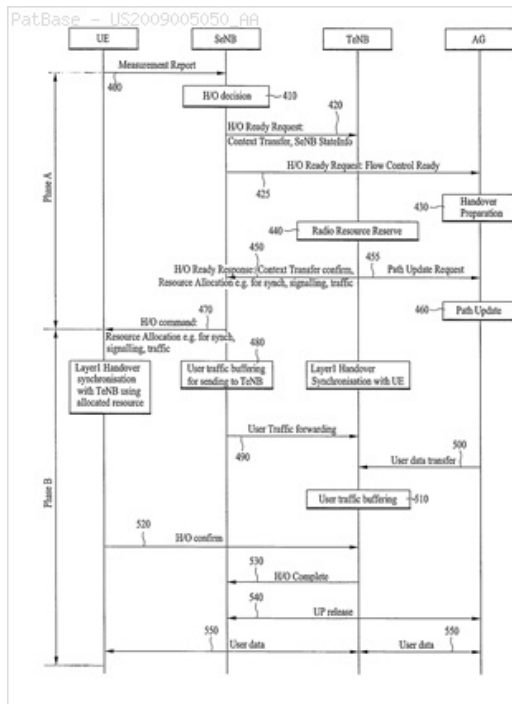
International (IPC 8-9): H04L29/02 H04B7/26 H04Q7/20 H04W36/00 H04W36/08 H04W36/38 H04W4/00 H04W92/04 (Advanced/Invention); H04W36/02 H04W36/08 H04W36/38 H04W92/04 (Advanced/Non-invention);

H04B7/26 H04W36/00 (Core/Invention); H04W92/00 (Core/Non-invention)

CPC: H04W36/0055 H04W92/04 H04B7/2612

European: H04W36/00P6 T04W92/04

US: 455/442 455/442P



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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WO2006KR03622 20060912

Probable Assignee: LG ELECTRONICS INC

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Inventor(s): (std): CHUN SUNG DUCK ; JUNG MYUNG CHEUL ; LEE YOUNG DAE ; PARK SEONG JUN ; PARK SUNG JUN

Agent(s): TER MEER STEINMEISTER AND PARTNER PATENTANWALTE MBB; URNER PETER; TER MEER STEINMEISTER AND PARTNER; LEE HONG DEGERMAN KANG AND WAIMEY

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 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 MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

12) Family number: 29478712 (US2007191070A)

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Title: RECONFIGURABLE MOBILE DEVICE INTERFACES SUPPORTING AUTHENTICATED HIGH-QUALITY VIDEO, AUDIO, TV AND MULTIMEDIA SERVICES

Abstract: A method and apparatus for reconfiguring the audio and video interfaces of mobile devices is described. A system for configuring various surfaces of a mobile device for performing additional functions such utilizing the front and reverse side of a mobile device with reconfigurable larger displays for enhancing the visual experience for various applications such as in video, TV and medical imaging is described. A system for command and control of a media center with a mobile device is disclosed. A method for multi-channel processing of audio and video information over mobile devices is described. A method for biometrically authorizing and delivering of copy right content to mobile devices is disclosed.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/0205 A61B5/024 A61B5/026 A61B5/04 A61B5/0408 A61B5/117 A61B5/1455 A61K9/00 A61M31/00 A61M35/00 A61M37/00 A61M5/172 A61N1/36 A61N1/362 A61N1/365 A61N1/37 A61N1/372 A61N1/39 G02B27/01 G06F15/16 G06F15/177 G06F17/28 G06F17/30 G06F17/60 G06F19/00 G06F3/00 G06F3/023 G06F3/048 G06K9/00 G06K9/62 G06N5/02 G06Q17/30 G06Q30/02 G06Q30/06 G06Q30/08 G06T19/00 G06T3/40 G08B1/08 G08B9/00 G08C17/02 G09B19/00 G09B5/06 G09G5/14 H04B1/00 H04B1/02 H04B1/38 H04B10/00 H04B10/11 H04B13/00 H04B7/00 H04B7/005 H04B7/04 H04B7/15 H04B7/26 H04L12/24 H04L12/28 H04L12/725 H04L29/06 H04L29/08

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International (IPC 1-7): H04B1/38 H04M11/00

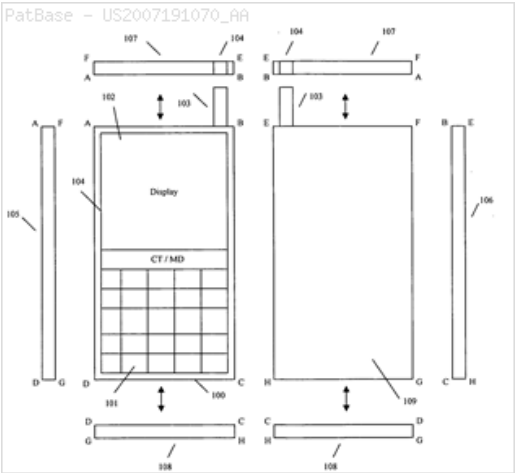
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Family:

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Probable Assignee: SMART MOBILE INC

Assignee(s): (std): RAO SANJAY K ; RAO SUNIL K ; RAO RAMAN K ; RAO REKHA K ; RAO SUNIL KALIPUTNAM ; RAO SANJAY KALIPUTNAM ; RAO REKHA ; RAO RAMAN KALIPUTNAM ; IP HOLDINGS INC ; IP HOLDINGS INC ; RAO LEGAL REPRESENTATIVE REKHA K ; RAO REKHA K

Assignee(s): AIRSPACE REALITY ; RAO RAJNI ; SMART MOBILE INC

Inventor(s): (std): RAO RAMAN K ; RAO SANJAY K ; RAO SUNIL K ; RAO SUNIL KALIPUTNAM ; RAO SUNIL ; RAO SANJAY KALIPUTNAM ; RAO REKHA KALIPUTNAM ; RAO REKHA ; RAO RAMAN KALIPUTNAM ; RAO RAMAN ; RAO RAJNI ; RAO REKHA K ; RAO LEGAL REPRESENTATIVE REKHA K

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