

Diego Gonzalez

1) Family number: 66938052 (US2017264406A)

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Title: NARROWBAND WIRELESS COMMUNICATIONS CELL SEARCH

Abstract: Methods, systems, and devices for wireless communication are described. A base station may broadcast a synchronization signal using a narrowband portion of a bandwidth of a cell. The synchronization signal may include a sequence repeated over several symbol periods using a cover code to support power-efficient cell acquisition. A user equipment (UE) receiving the synchronization signal may determine frequency and timing information for a cell by performing a weighted combination and accumulation of low complexity autocorrelation and cross-correlation procedures on the synchronization signal. The reduced complexity correlation procedures may be enabled based on the use of the cover code and a base sequence. In some cases, the cross-correlation may be performed at multiple sampling rates. The use of the cover code within the synchronization signal may also support correlation procedures that use recursive or repeated updates, which may allow for further reduced computational complexity relative to other cell search procedures.

Classifications:**International (IPC 8-9):** H04J11/00 H04L H04L27/00 H04L27/26

H04L5/00 H04W4/00 H04W4/70 H04W48/16 H04W56/00

H04W72/04 (Advanced/Invention);

H04L27/00 H04W88/02 (Advanced/Non-invention)

CPC: H04L5/0048 H04W72/0406 H04W48/16 H04W88/02 H04W4/70

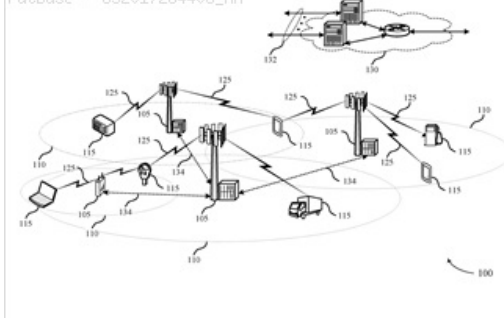
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H04L27/2675 H04L2027/0026 H04W56/0015 Y02D70/1242

Y02D70/1262 Y02D70/1264 Y02D70/142 Y02D70/146 Y02D70/21

PatBase - US2017264406_AA

**Family:**

Publication number	Publication date	Application number	Application date
AU2017228738 AA	20180823	AU20170228738	20170106
BR112018068292 A2	20190115	BR20181168292	20170106
CA3013918 AA	20180807	CA20173013918	20170106
CL2018002560 A1	20181221	CL20180002560	20180907
CN108713335 A	20181026	CN201780016003	20170106
CO20180009402 A2	20180920	CO20180009402	20170106
EP3427524 A1	20190116	EP20170701942	20170106
ID201900138 A	20190111	ID2018P0007573	20170106
IL260834 A0	20180920	IL20170260834	20170106
IN201847029085 A	20180810	IN201847029085	20180802
JP2019510413 T2	20190411	JP20180547321T	20170106
KR20180123495 A	20181116	KR20187026067	20170106
MX2018010895 A1	20181109	MX20180010895	20170106
RU2689989 C1	20190530	RU20180135674	20170106
SG11201806443R A1	20180927	SG20181106443	20170106
US2017264406 AA	20170914	US20160376025	20161212
US10200169 BB	20190205	US20160376025	20161212
WO17155601 A1	20170914	WO2017US12562	20170106

Priority:

US20160307419P 20160311 US20160376025 20161212 WO2017US12562 20170106

Probable Assignee: QUALCOMM INC**Assignee(s):** (std): QUALCOMM INC**Assignee(s):** XU HAO ; WANG XIAO FENG ; WANG RENQIU ; WEI YONGBIN ; RICO ALVARINO ALBERTO ; CHEN WANSHI ; GAAL PETER ; LEI JING ; MONTOJO JUAN**Inventor(s):** (std): WANG XIAO ; YONGBIN WEI ; XIAO FENG WANG ; WANSHI CHEN ; RENQIU WANG ; PETER GAAL ; JUAN MONTOJO ; JING LEI ; HAO XU ; ALBERTO RICO ALVARINO ; XU HAO ; WEI YONGBIN ; WANG XIAO FENG ; WANG RENQIU ; RICO ALVARINO ALBERTO ; MONTOJO JUAN ; LEI JING ; GAAL PETER ; CHEN WANSHI**Agent(s):** MADDERNS PATENT AND TRADE MARK ATTORNEYS; MADDERNS PTY LTD; SMART AND BIGGAR; ESTUDIO CLARKE MODET AND CO CHILE LIMITADA; DUNLOP HUGH CHRISTOPHER; LUDIYANTO SH MH MM; YURIDICHESKAYA GORODISSKIJ I PARTNERY OOO FA; ZOHNN NERRIE M; LARSEN PER H**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 DJ 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 KH KM KN KP KR KW 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**2) Family number: 60549992** (US2015294046A)

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Title: OPTIMIZATION OF THERMODYNAMIC EFFICIENCY VS. CAPACITY FOR A COMMUNICATIONS SYSTEMS

Abstract: The present disclosure relates to the modeling of communications systems using information theory and thermodynamic principles. The disclosure establishes a fundamental relationship between thermodynamic efficiency and capacity for communications systems based on fundamental physical principles, applicable to communications processes. Further, principles of efficiency optimization with an emphasis on electronic communications platforms are introduced herein.

Classifications:

International (IPC 8-9): G06F17/10 G06F17/50 G09G5/10

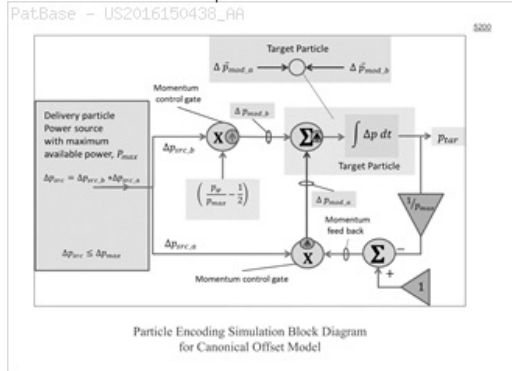
H04H40/00 H04L12/24 H04L29/02 H04W28/02

H04W52/02 (Advanced/Invention);

H04W84/12 (Advanced/Non-invention)

CPC: H04W28/0221 H04W84/12 G06F17/5009

US: 370/311 703/2



Family:

Publication number	Publication date	Application number	Application date
US2015294046 AA	20151015	US20150679928	20150406
US2016150438 AA	20160526	US20150749463	20150624
US10244421 BB	20190326	US20150749463	20150624
WO15154089 A1	20151008	WO2015US24568	20150406

Priority:

US20140975077P 20140404

US20140016944P 20140625

US20150115911P 20150213

US20150679928 20150406

US20150749463 20150624

Probable Assignee: PARKERVISION INC

Assignee(s): (std): PARKERVISION INC

Inventor(s): (std): RAWLINS GREGORY S

Agent(s): STERNE KESSLER GOLDSTEIN AND FOX PLLC; LEE MICHAEL Q ET AL

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

3) Family number: 68799752 (US2018070256A)

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Title: SYSTEMS AND METHODS FOR RADIO RESOURCE MANAGEMENT

Abstract: Systems and methods providing radio resource management (RRM) to facilitate the co-existence of the neighboring cells, such as to manage radio resources for deployments utilizing a same frequency or overlapping frequencies, using discovery signal transmission are disclosed. Discovery signal transmission may be used to enable network elements of a wireless communication system to discover other network elements of the wireless communication system, whether such other network elements are operating with respect to a cell of a same or different operator. Transmission of discovery signals may be utilized to detect situations of dominant interference, whereby the network elements of neighboring cells may provide protected resources for each other. The protected resources may comprise particular frequencies, time slots, channels, etc.

Classifications:

International (IPC 8-9): H04W16/10 H04W24/00 H04W24/10

H04W28/18 H04W48/16 H04W72/04 H04W72/08 H04W88/04

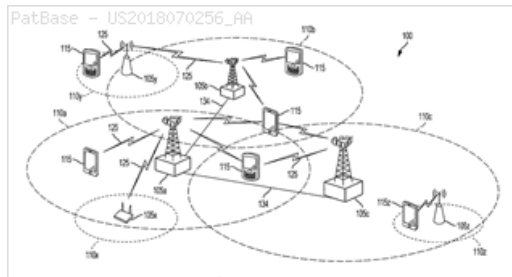
H04W88/08 H04W92/20 (Advanced/Invention);

H04W72/04 H04W72/08 H04W88/04 H04W92/20 (Advanced/Non-invention)

CPC: H04W24/10 H04W48/16 H04W16/10 H04W88/04 H04W92/20

H04W72/0426 H04W72/082

US: 370/329



Agent(s): QUALCOMM IP DEPT; YANCEY JR JAMES HUNT; VIGUET R ROSS

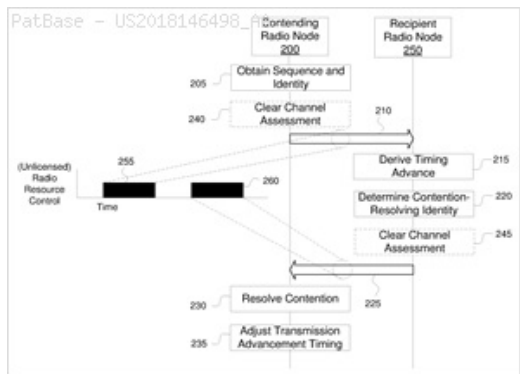
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4) Family number: 65576408 (US2018146498A) © PatBase

Title: TWO-STEP CONTENTION-BASED RANDOM ACCESS OVER RADIO RESOURCES IN LAA

Abstract: A contending radio node (200) is configured for attempting contention-based random access. The contending radio node (200) obtains a timing advance sequence that is susceptible to contention. The contending radio node (200) transmits, using the same transmission advancement timing, the timing advance sequence and a contention-resolving identity to a recipient radio node (250). Responsive to that transmission, the contending radio node (200) receives a response signal that indicates a contention-resolving identity and a timing advance. The contending radio node (200) resolves any contention in its favor when the contention-resolving identity indicated by the response signal corresponds to the contention-resolving identity that the contending radio node (200) transmitted. The contending radio node (200), responsive to resolving the contention in its favor, adjusts its transmission advancement timing according to the timing advance indicated by the response signal.

Classifications:
International (IPC 8-9): H04W16/14 H04W56/00 H04W74/00
H04W74/08 (Advanced/Invention);
H04W16/14 H04W56/00 H04W74/00 (Advanced/Non-invention)
CPC: H04W74/002 H04W74/0841 H04W56/0005 H04W56/0045
H04W16/14 H04W74/008



Family:

Publication number	Publication date	Application number	Application date
CN108432331 A	20180821	CN201680077066	20161028
EP3369285 A1	20180905	EP20160794448	20161028
IN201847020227 A	20180608	IN201847020227	20180530
US2018146498 AA	20180524	US20160576082	20161028
WO17074254 A1	20170504	WO2016SE51056	20161028

Priority:

US20150248892P 20151030 US20160576082 20161028 WO2016SE51056 20161028

Probable Assignee: TELEFONAKTIEBOLAGET LM ERICSSON PUBL

Assignee(s): (std): ERICSSON TELEFON AB L M ; ERICSSON TELEFON AB L M PUBL ; TELEFONAKTIEBOLAGET LM ERICSSON PUBL

Inventor(s): (std): MUKHERJEE AMITAV ; SAHLIN HENRIK

Agent(s): ERICSSON; BOU FAICAL ROGER

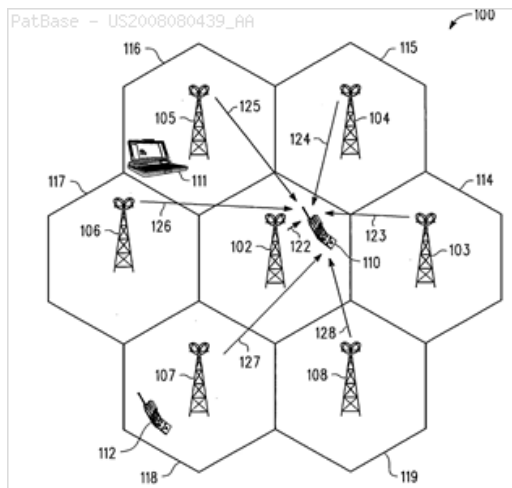
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR 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

5) Family number: 41669808 (US2008080439A) © PatBase

Title: CELL IDENTIFIER ENCODING AND DECODING METHODS AND APPARATUS

Abstract: In an embodiment, a wireless communication system (100, Fig. 1) includes one or more nodes (102 - 108) and one or more user equipments (UE) (110). A node may apply (502, Fig. 5) a cell-specific spreading code to a cell identifier, which indicates an identity of a cell (113, Fig. 1) serviced by the node. The node may insert (504, Fig. 5), into a frame (200, Fig. 2), at least one synchronization channel symbol, which corresponds to the spread cell identifier, and the node may transmit (506, Fig. 5) the frame over an air interface. A UE may receive (702, Fig. 7) a frame from the air interface. The UE may despread (708) the spread cell identifier, and acquire (712) a cell identifier corresponding to a particular cell.

Classifications:
International (IPC 8-9): H04B1/7083 H04B7/208 H04B7/216
H04J13/00 H04J13/16 H04L27/26 H04L5/00 H04Q7/24 H04W56/00
H04W76/02 H04W8/26 (Advanced/Invention);
H04B1/00 H04W56/00 (Advanced/Non-invention);
H04B7/204 H04W76/00 (Core/Invention);
H04W56/00 (Core/Non-invention)
CPC: H04W8/26 H04B1/7083 H04J13/0055 H04J13/0066 H04J13/16
H04J2013/165 H04L5/0007 H04L5/0016 H04L5/0048 H04L27/2613
H04L27/2657 H04L27/2662 H04W56/00
European: H04L27/26M1R3 H04L5/00A3A H04L5/00C5 H04W8/26
T04L27/26M5C3 T04L27/26M5C5 T04L5/00A2A1 T04W56/00
US: 370/328 370/338 370/338P 370/342 370/344 375/130 375/362



Family:

Publication number	Publication date	Application number	Application date
EP2074719 A2	20090701	EP20070800118	20070815
EP2074719 A4	20131120	EP20070800118	20070815
US2008080439 AA	20080403	US20060540784	20060929
US2013021973 AA	20130124	US20120556087	20120723
US8228887 BB	20120724	US20060540784	20060929
US8976773 BB	20150310	US20120556087	20120723
WO08042507 A2	20080410	WO2007US75952	20070815
WO08042507 A3	20080717	WO2007US75952	20070815

Priority:

US20060540784 20060929 WO2007US75952 20070815 US20120556087 20120723

Probable Assignee: FREESCALE SEMICONDUCTOR INC

Assignee(s): (std): APPLE INC ; AZIZ AHSAN U ; CHANDRASEKHAR VIKRAM ; MCCOY JAMES WESLEY ; FREESCALE SEMICONDUCTOR INC

Assignee(s): CITIBANK NA ; CITIBANK NA COLLATERAL AGENT AS

Inventor(s): (std): CHANDRASEKHAR VIKRAM ; AZIZ AHSAN U ; MCCOY JAMES WESLEY

Agent(s): FERRO FRODO NUNES; INGRASSIA FISHER AND LORENZ PC; GAZDZINSKI AND ASSOCIATES PC; MEYERTONS HOOD KIVLIN KOWERT AND GOETZEL PC; KING ROBERT L ET AL

Designated states: AE AG AL AM 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 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 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

6) Family number: 53653683 (US2013107704A)

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Title: DYNAMIC SPECIAL SUBFRAME ALLOCATION

Abstract: A base station transmits a message to wireless devices in connected mode. The message comprises an initial subframe allocation bitmap indicating an initial plurality of subframes including an initial plurality of special subframes. After an increase in the number of wireless devices or traffic load by an amount greater than a load value, the base station transmits a second message. The second message comprises an updated subframe allocation bitmap indicating a second plurality of subframes including an updated plurality of special subframes. The updated plurality of special subframes includes a smaller number of special subframes than the initial plurality of special subframes.

Classifications:

International (IPC 8-9): G01R31/08 H04B7/26 H04H20/33 H04H20/42 H04J11/00 H04L27/26 H04L29/06 H04L5/00 H04L5/14

H04W16/06 H04W16/32 H04W24/00 H04W24/02 H04W24/06

H04W24/10 H04W28/08 H04W28/10 H04W4/00 H04W4/06

H04W52/14 H04W52/34 H04W52/60 H04W56/00 H04W72/04

H04W72/12 H04W84/04 (Advanced/Invention);

H04L5/00 H04W16/06 H04W24/10 H04W48/12 H04W52/24

H04W84/04 H04W88/02 H04W88/08 (Advanced/Non-invention)

CPC: H04W16/06 H04W48/12 H04W52/244 H04L5/0048 H04L27/2601

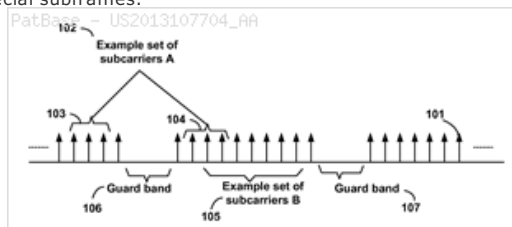
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H04L69/22 H04W52/143 H04L5/0007 H04W72/042 H04W52/60 H04W72/0446 Y02D70/00

US: 1/1 370/230 370/252 370/280 370/312 370/328 370/329 370/350 370/433 375/130



Family:

Publication number	Publication date	Application number	Application date
EP2771999 A2	20140903	EP20120812742	20121029
EP2879320 A1	20150603	EP20140197792	20121029
US2013107704 AA	20130502	US20120662458	20121027
US2013107705 AA	20130502	US20120662503	20121028
US2013107826 AA	20130502	US20120662459	20121027
US2013107827 AA	20130502	US20120662487	20121028
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US2015146659 AA	20150528	US20140574686	20141218
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US8929215 BB	20150106	US20120662503	20121028
US8937918 BB	20150120	US20120662544	20121029
US8971250 BB	20150303	US20120662459	20121027
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US9295059 BB	20160322	US20140574686	20141218
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US9549382 BB	20170117	US20160072418	20160317
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US9596681 BB	20170314	US20160072411	20160317
US9698922 BB	20170704	US20160134425	20160421
US9900882 BB	20180220	US20170406009	20170113
US10237007 BB	20190319	US20170639653	20170630
WO13063604 A2	20130502	WO2012US62482	20121029
WO13063604 A3	20130912	WO2012US62482	20121029

Priority:

US20110553183P	20111029	US20110553184P	20111029	US20110553185P	20111029
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US20170406009	20170113	US20170639653	20170630	US20180898328	20180216

Probable Assignee: COMCAST CABLE COMMUNICATIONS LLC

Assignee(s): (std): COMCAST CABLE COMM LLC ; DINAN ESMAEL HEJAZI ; OFINNO TECH LLC ; OFINNO TECHNOLOGIES LLC

Assignee(s): COMCAST CABLE COMMUNICATIONS LLC

Inventor(s): (std): DINAN ESMAEL HEJAZI

Agent(s): PATENTANWALTE WESTPHAL MUSSGNUM AND PARTNER; WESTPHAL MUSSGNUM AND PARTNER
PATENTANWALTE MBB; ESMAEL; DAVID; BANNER AND WITCOFF 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 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

7) Family number: 62962458 (US2016212756A)

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Title: METHOD AND APPARATUS FOR CONTROLLING MODEM IN WIRELESS COMMUNICATION SYSTEM

Abstract: The method and apparatus for controlling a modem of a user equipment (UE) in a wireless communication system is provided. A method includes generating at least one modem control information determined based on information related to a wireless communication environment, when at least a portion of the wireless communication environment is changed, updating a priority stored in a database of the UE based on the changed wireless communication environment and controlling the modem of the UE using the priority-updated modem control information.

Classifications:

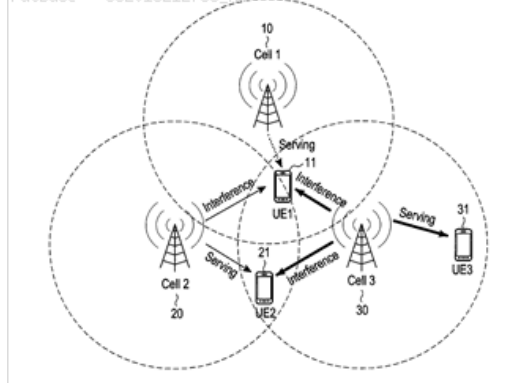
International (IPC 8-9): H04L1/00 H04W24/02 H04W24/08

H04W72/08 H04W72/10 H04W72/12 (Advanced/Invention)

CPC: H04W24/02 H04W24/08 H04W72/1247

US: 370/329

PatBase - US2016212756_A6



Family:

KR20160088206 A	20160725	KR20150060776	20150429
US2016212756 AA	20160721	US20150978692	20151222
US2018176807 AA	20180621	US20180895706	20180213
US9930550 BB	20180327	US20150978692	20151222

Priority:

US20150103874P 20150115 KR20150020825 20150211 KR20150060776 20150429
US20150978692 20151222 US20180895706 20180213

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): IM SE BIN ; KIM MIN GOO ; KIM SUNG SOO ; YI CHAE HAG ; SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO

Inventor(s): (std): KIM SUNG SOO ; YI CHAE HAG ; KIM MIN GOO ; IM SE BIN

Agent(s): FARRELL LAW FIRM PC

8) Family number: 54949701 (US2015016331A)

© PatBase

Title: APPARATUS FOR RECEIVING DOWNLINK SIGNAL IN A WIRELESS COMMUNICATION SYSTEM AND METHOD THEREOF

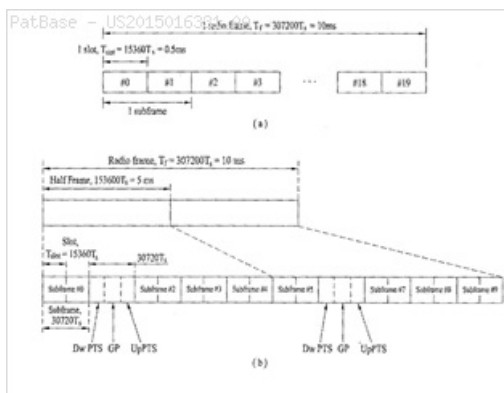
Abstract: A method of receiving downlink signal at a user equipment in a wireless communication system is disclosed. The present invention includes receiving an information related to a reference signal of a neighbor cell from a serving cell and performing an interference handling in resources in accordance with the information related to the reference signal of the neighbor cell, wherein the information related to the reference signal of the neighbor cell comprises at least one selected from the group consisting of a cell ID (identity) of the neighbor cell, the number of ports for transmitting the reference signal of the neighbor cell, an frequency information for transmitting the reference signal of the neighbor cell and an time information for transmitting the reference signal of the neighbor cell.

Classifications:

International (IPC 8-9): H04B7/26 H04J11/00 H04L5/00 H04W16/32
H04W24/00 H04W4/06 H04W72/00 (Advanced/Invention)

CPC: H04L5/0032 H04W72/005 H04W4/06 H04J11/005

US: 370/312 370/329



Family:

Publication number	Publication date	Application number	Application date
KR101618132 B1	20160504	KR20147031266	20130408
KR20140147884 A	20141230	KR20147031266	20130408
US2015016331 AA	20150115	US20130380335	20130408
US9509460 BB	20161129	US20130380335	20130408
WO13151404 A1	20131010	WO2013KR02920	20130408

Priority:

US20120621459P 20120406 US20130380335 20130408 WO2013KR02920 20130408

Probable Assignee: LG ELECTRONICS

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

Inventor(s): (std): KIM BYOUNG HOON ; KIM BYOUNGHOON ; KIM EUN SUN ; KIM EUNSUN ; KIM KI JUN ; KIM KIJUN ; SEO HAN BYUL ; SEO HANBYUL

Agent(s): LEE HONG DEGERMAN KANG AND 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 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

9) Family number: 71742792 (US10123230B)

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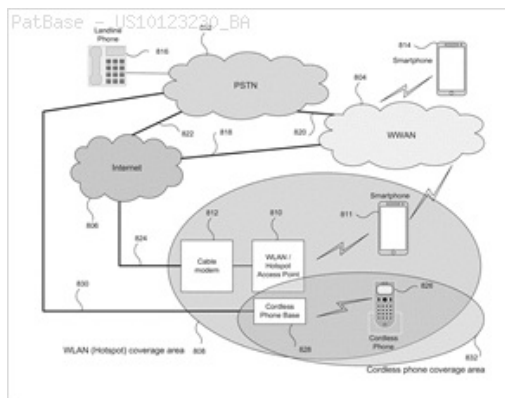
Title: METHOD AND APPARATUS FOR MEASUREMENT INFORMATION TRANSMISSION AT A HOTSPOT DEVICE

Abstract: Internet, voice calls, and messaging services have become ubiquitous and the means by which the services are accessed varies widely. The number and types of devices that may use these services have also proliferated. To serve a number and variety of client devices, a mobile Hotspot may be used, which is a device that may include a modem for mobile broadband access and a short range wireless link to distribute the services to local devices which may have such connectivity. Power consumption of battery powered client devices is an important consideration. A method and apparatus are disclosed that enable a client device to receive measurements of mobile network neighbor cells from a mobile Hotspot over a short range wireless link which may reduce power consumption of client devices.

Classifications:

International (IPC 8-9): H04L1/00 H04L5/00 H04W24/10
H04W56/00 (Advanced/Invention)

CPC: H04W24/10 H04W56/001 H04L5/0048



Family:

Publication number	Publication date	Application number	Application date
US10123230 BA	20181106	US20160290664	20161011

Priority:

US20160290664 20161011

Probable Assignee: MBIT WIRELESS INC

Assignee(s): (std): MBIT WIRELESS INC

Inventor(s): (std): GOVINDASSAMY SIVAKUMAR

Agent(s): LERNER DAVID LITTENBERG KRUMHOLZ AND MENTLIK LLP

10) Family number: 30055208 (US2004202940A)

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Title: WIRELESS COMMUNICATION SYSTEM ARCHITECTURE MOBILE STATION AND METHOD

Abstract: A wireless communication architecture (100) includes a first wireless communication system (123) operating in the vicinity of a second wireless communication system (173). A System Locator (155) provides at least one operational parameter (330) of the first wireless communication system (123) to at least one dual-mode wireless subscriber communication unit (172) when operating in said second wireless communication system (173) via said second wireless communication system (173). The operational parameter (330) is based on a determined location of the at least one dual-mode wireless subscriber communication unit (172) for use by the at least one dual-mode wireless subscriber communication unit (172) in searching for and/or switching its operation to the first wireless communication system (123). The first system may be a TETRA or iDEN system and the second system may be a GSM system.

Classifications:

International (IPC 8-9): H04W36/14 (Advanced/Invention);

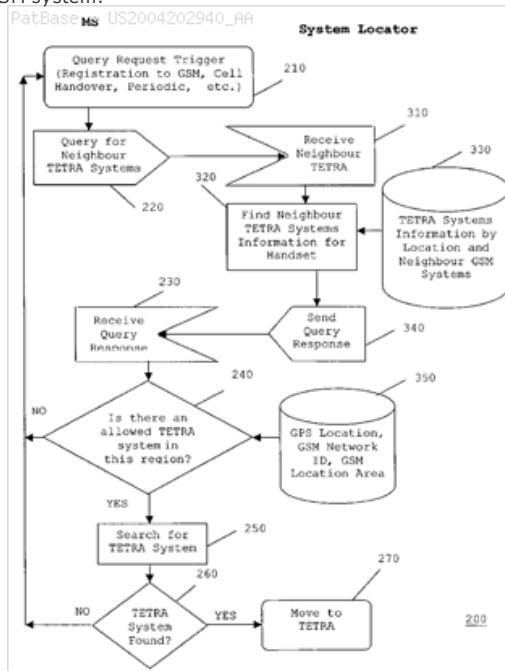
H04W36/00 (Core/Invention)

International (IPC 1-7): H01M10/04 H01M10/40 H01M4/48 H01M4/50 H01M4/52 H01M4/58 H04B1/38 H04M3/42 H04Q7/20 H04Q7/32 H04Q7/38

CPC: H04W8/245

European: H04W20/12 H04W236/14

US: 429/221 429/221S 429/223 429/223S 429/224 429/224S 429/231.1 429/231.100S 429/231.3 429/231.300S 429/231.5 429/231.500S 429/231.95 429/231.950S 429/306 429/306P 429/324 429/324S 429/338 429/338S 429/342 429/342S 455/466 455/466S 455/553.1 455/553.100S



Family:

Publication number	Publication date	Application number	Application date
AU2003240770 AA	20031212	AU20030240770	20030416
AU2003240770 AH	20031212	AU20030240770	20030416
EP1512300 A1	20050309	EP20030730184	20030416
GB200212198 A0	20020703	GB20020012198	20020528
GB2389273 A1	20031203	GB20020012198	20020528
GB2389273 B2	20040818	GB20020012198	20020528
US2004202940 AA	20041014	US20020205027	20020725
WO03101128 A1	20031204	WO2003EP50110	20030416

Priority:

GB20020012198 20020528

WO2003EP50110 20030416

Probable Assignee: MOTOROLA INC

Assignee(s): (std): BALLA CHANTAL ; BAR ON DAVID ; KRAMER DAVID ; MOTOROLA INC ; MOTOROLA LTD ; URS KAMALA DIANE

Assignee(s): MOTOROLA LIMITED

Inventor(s): (std): URS KAMALA DIANE ; KRAMER DAVID ; BAR ON DAVID ; BALLA CHANTAL

Inventor(s): CHANTAL BALLA ; DAVID BAR ON ; DAVID KRAMER ; KAMALA DIANE URS

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

11) Family number: 61870146 (US2017265172A)

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Title: RADIO STATION, RADIO TERMINAL, AND METHOD FOR TERMINAL MEASUREMENT

Abstract: A radio station (1) transmits, to a radio terminal (3) on a licensed frequency (Cell #1), control signaling (S102) associated with at least one of a measurement timing and a measurement period of terminal measurement on an unlicensed frequency (Cell #2) and receives, from the radio terminal (3) on the licensed frequency (Cell #1), a result of the terminal measurement that is executed in response to the control signaling (S102) and in accordance with at least one of the measurement timing and the measurement period (S105). This contributes, for example, to acquisition of information useful for the radio station to determine whether to allow the radio terminal to perform communication on the unlicensed frequency.

Classifications:

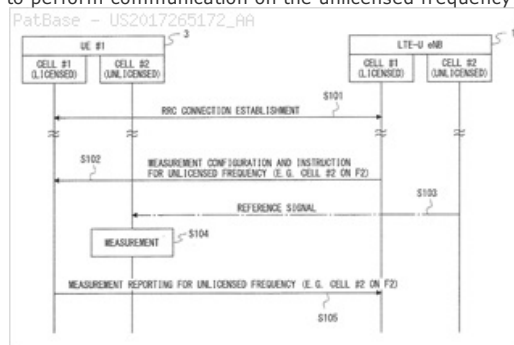
International (IPC 8-9): H04L5/00 H04W16/14 H04W24/10

H04W48/16 H04W72/04 (Advanced/Invention);

H04W24/10 H04W72/04 (Advanced/Non-invention)

CPC: H04W72/042 H04L5/0053 H04W72/0446 H04W72/0453

H04W16/14 H04W24/10 H04W72/04



Family:

Publication number	Publication date	Application number	Application date
■ CN107172890 A	20170915	CN201580049238	20150417
■ EP3193525 A1	20170719	EP20150840452	20150417
■ EP3193525 A4	20180502	EP20150840452	20150417
■ JP2016038763 A1	20170629	JP20160547655T	20150417
■ US2017265172 AA	20170914	US20150508332	20150417
■ US2019104505 AA	20190404	US20180207517	20181203
■ US10182430 BB	20190115	US20150508332	20150417
■ WO16038763 A1	20160317	WO2015JP02119	20150417

Priority:

JP20140186949 20140912 WO2015JP02119 20150417 US20170508332 20170302
US20180207517 20181203

Probable Assignee: NEC CORP

Assignee(s): (std): NEC CORP

Inventor(s): (std): FUTAKI HISASHI

Agent(s): MACDOUGALL ALAN JOHN SHAW; IEIRI TAKESHI; WILMER CUTLER PICKERING HALE AND DORR 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 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

12) Family number: 68552657 (US9893925B)

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Title: METHOD AND APPARATUS FOR JOINT TIME AND FREQUENCY SYNCHRONIZATION IN WIRELESS COMMUNICATION SYSTEMS

Abstract: In a wireless communication system, a client terminal may first establish time and frequency synchronization with the network. While establishing the time and frequency synchronization, a client terminal may need to detect additional parameters about the network, such as physical cell identity, before it can initiate communication with the wireless communication system. Detecting the network parameters in presence of time and frequency offsets increases the complexity of the initial cell search procedure that includes time and frequency synchronization as well as detection of network parameters. A method and apparatus are disclosed that achieve joint time and frequency synchronization by utilizing the relationship between frequency offset and the apparent timing shift. The joint time and frequency synchronization enables faster and more reliable synchronization with the wireless communication system.

Classifications:

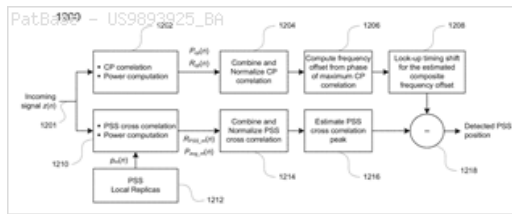
International (IPC 8-9): H04J11/00 H04L27/00 H04L27/26 H04L7/04

H04W56/00 (Advanced/Invention);

H04L5/14 (Advanced/Non-invention)

CPC: H04L27/2675 H04W56/0035 H04L5/143

US: 1/1



Family:

Publication number	Publication date	Application number	Application date
US9893925 BA	20180213	US20160088407	20160401

Priority:

US20160088407 20160401

Probable Assignee: MBIT WIRELESS INC

Assignee(s): (std): MBIT WIRELESS INC

Inventor(s): (std): PATEL BHASKAR

Agent(s): LERNER DAVID LITTENBERG KRUMHOLZ AND MENTLIK LLP

13) Family number: 72575376 (US10165490B)

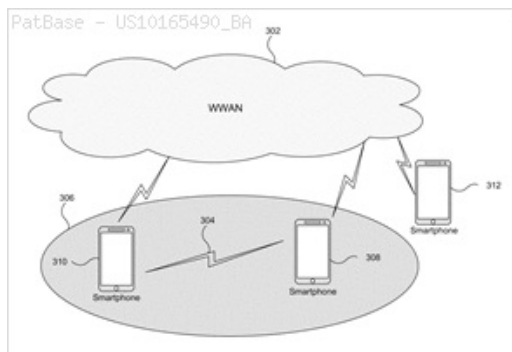
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Title: METHOD AND APPARATUS FOR COLLABORATIVE MEASUREMENT INFORMATION TRANSMISSION

Abstract: As the variety and number of wireless client devices have increased, often there may be multiple client devices in close proximity of each other. In addition to the connectivity to the wireless wide area network (WWAN), the client devices may have a short range link to directly connect with each other. Two or more client devices in a given area may be camped on the same or neighboring cells of the same WWAN, and the client devices may be performing measurements on the same set or subset of cells. A method and apparatus are disclosed such that a client device may perform serving and neighbor cells measurements and relay the measurements information to other client devices over the short range link. This may enable other client devices to avoid having to perform measurements directly on the WWAN cells which may reduce their power consumption.

Classifications:

International (IPC 8-9): H04B17/318 H04W36/00 H04W36/30
H04W4/00 H04W76/14 (Advanced/Invention);
H04W84/04 H04W84/12 H04W88/04 (Advanced/Non-invention)
CPC: H04W84/12 H04W88/04 H04W36/0061 H04W36/0085
H04W36/14 H04W76/14



Family:

Publication number	Publication date	Application number	Application date
US10165490 BA	20181225	US20160383450	20161219

Priority:

US20160383450 20161219

Probable Assignee: MBIT WIRELESS INC

Assignee(s): (std): MBIT WIRELESS INC

Inventor(s): (std): GOVINDASSAMY SIVAKUMAR

Agent(s): LERNER DAVID LITTENBERG KRUMHOLZ AND MENTLIK LLP

14) Family number: 43001326 (US2009067517A)

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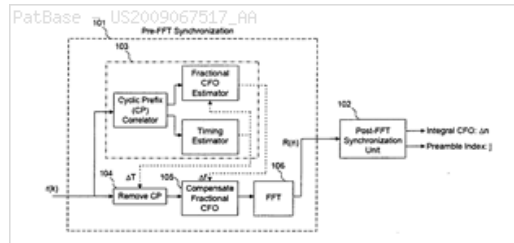
Title: PREAMBLE SEQUENCE DETECTION AND INTEGRAL CARRIER FREQUENCY OFFSET ESTIMATION METHOD FOR OFDM/OFDMA WIRELESS COMMUNICATION SYSTEM

Abstract: In multi-cell OFDM/OFDMA wireless communication systems, any subscriber station (SS) or mobile station (MS) that intends to enter the system needs to establish time and frequency synchronization with the base station (BS) and obtain the identification code of the BS, where in frequency synchronization one usually needs to estimate the fractional carrier frequency offset (CFO) and the integral CFO. ("Fractional" and "integral" refer to, respectively, the fractional and the integral parts of the ratio of the CFO to subcarrier spacing.) The present invention assumes that the SS or MS first does timing and fractional CFO synchronization and then conducts integral CFO estimation and BS identity detection. The present invention considers integral CFO estimation and BS identity detection jointly, i.e., it proposes solutions that address these topics jointly. The present invention formulates the problem as a signal detection problem in multi-channel interference and obtains the theoretically optimal solution first, and then derives simplified, approximately optimal solutions, in which the present invention employs frequency-domain filtering to calculate the required correlation values which can drastically reduce the high computational complexity of the original theoretically optimal solution but results in little impact on precision. In addition, the present invention proposes several further simplified algorithms, some of which can even eliminate the use of multipliers. The above proposition of frequency-domain filtering has high extensibility in application to related signal sequence detection problems.

Classifications:

International (IPC 8-9): H03D1/00 H04B17/00 H04J11/00 H04K1/10
H04L27/06 H04L27/28 (Advanced/Invention);

H03D1/00 H04L27/06 H04L27/26 (Core/Invention)
CPC: H04L5/0007 H04L27/0014 H04L27/2659 H04L27/2672
H04L27/2675 H04L27/2684
European: H04L27/00R H04L27/26M5C3 H04L5/00A2A1
US: 375/259 375/260 375/260P 375/262 375/267 375/299 375/316
375/341 375/341S



Family:

Publication number	Publication date	Application number	Application date
TW200913522 A	20090316	TW20070133781	20070907
TWI375412 B	20121021	TW20070133781	20070907
US2009067517 AA	20090312	US20080078616	20080402
US8300713 BB	20121030	US20080078616	20080402

Priority:

TW20070133781 20070907

Probable Assignee: NATIONAL CHIAO TUNG UNIV

Assignee(s): (std): HUNG KUN CHIEN ; LIN DAVID W ; UNIV NAT CHIAO TUNG

Assignee(s): NATIONAL CHIAO TUNG UNIV ; NATIONAL CHIAO TUNG UNIVERSITY

Inventor(s): (std): LIN DAVID W ; HUNG KUN CHIEN ; LIN DAVID

Inventor(s): DAVID W LIN

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

15) Family number: 54785383 (US2015003442A)

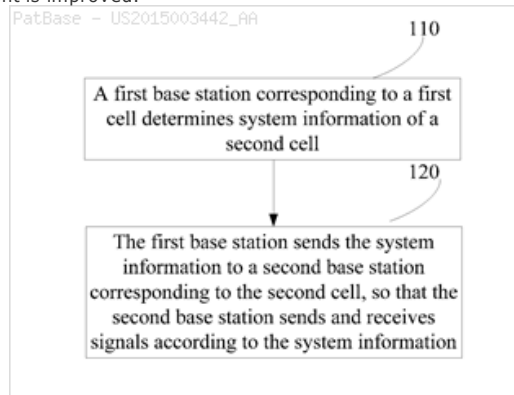
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Title: CELL CONFIGURATION METHOD, SYNCHRONIZATION METHOD, USER EQUIPMENT, AND BASE STATION

Abstract: Embodiments of the present invention disclose a cell configuration method, a method for implementing synchronization between a user equipment and a base station, a user equipment, and a base station. The cell configuration method includes: determining, by a first base station corresponding to a first cell, system information of a second cell; and notifying, by the first base station, a second base station corresponding to the second cell of the system information, so that the second base station sends and receives signals according to the system information. According to the solutions provided in the embodiments of the present invention, system information of a cell may be dynamically or semi-statically adjusted according to user equipment distribution and service distribution, so that network resources can be better provided for a user equipment that needs them, a capability of serving the user equipment is improved.

Classifications:

International (IPC 8-9): H04J3/06 H04L5/00 H04W16/02 H04W16/04
H04W56/00 H04W72/04 H04W88/02 H04W88/08 (Advanced/Invention)
CPC: H04W56/0015 H04W72/042 H04L5/0092 H04W16/02
H04W16/04
US: 370/350



Family:

Publication number	Publication date	Application number	Application date
BR112014022829 A2	20170620	BR20141122829	20130318
BR112014022829 A8	20170718	BR20141122829	20130318
CN103313250 A	20130918	CN201210070828	20120316
CN103313250 B	20160928	CN201210070828	20120316
EP2827632 A1	20150121	EP20130760981	20130318
EP2827632 A4	20150520	EP20130760981	20130318
US2015003442 AA	20150101	US20140487911	20140916
US2017325189 AA	20171109	US20170656846	20170721
US2019182787 AA	20190613	US20190282049	20190221
US9736803 BB	20170815	US20140487911	20140916
US10244498 BB	20190326	US20170656846	20170721
WO13135210 A1	20130919	WO2013CN072804	20130318

Priority:

CN201210070828 20120316 WO2013CN072804 20130318 WO2013CN72804 20130318
US20140487911 20140916 US20170656846 20170721 US20190282049 20190221

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): XIA LIANG ; SUN JINGYUAN ; REN XIAOTAO ; ZHOU YONGXING

Inventor(s): YONGXING ZHOU ; XIAOTAO REN ; LIANG XIA ; JINGYUAN SUN

Agent(s): ISARPATENT; LEYDIG VOIT AND MAYER LTD

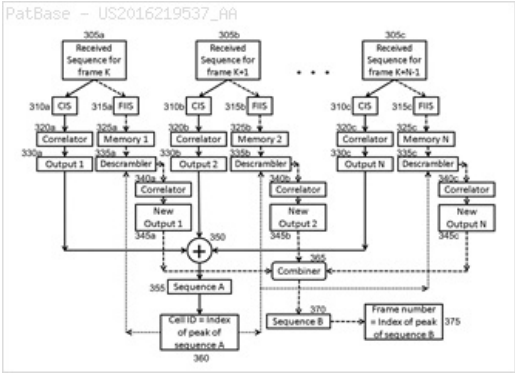
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16) Family number: 62995334 (US2016219537A) © PatBase

Title: METHOD OF DETECTING CELL IDENTITY AND FRAME NUMBER INFORMATION

Abstract: A method in a node comprises receiving a signal, and collecting a first set of sequences corresponding to a first piece of cellular information and a second set of sequences corresponding to a second piece of cellular information over multiple frames of the received signal, wherein the second piece of cellular information is encoded based at least in part on the first piece of cellular information. The method further comprises processing the first set of sequences corresponding to the first piece of cellular information to determine the first piece of cellular information, and processing, using the determined first piece of cellular information, the second set of sequences corresponding to the second piece of cellular information to determine the second piece of cellular information simultaneously with the determination of the first piece of cellular information.

Classifications:
International (IPC 8-9): H04J11/00 H04L12/741 H04L27/26 H04W4/00 H04W48/16 H04W56/00 H04W64/00 (Advanced/Invention); H04B1/7083 H04J11/00 H04L27/26 H04W88/02 (Advanced/Non-invention)
CPC: H04W56/001 H04W64/003 H04L45/745 H04W88/02 H04B1/7083 H04J11/0069 H04L27/2656 H04W48/16 H04J11/0079 H04W4/70
US: 455/84



Family:

Publication number	Publication date	Application number	Application date
US2016219537 AA	20160728	US20160004325	20160122
US9615342 BB	20170404	US20160004325	20160122
WO16120773 A1	20160804	WO20161B50348	20160123

Priority:

US20150108383P 20150127 US20160004325 20160122

Probable Assignee: TELEFONAKTIEBOLAGET LM ERICSSON PUBL

Assignee(s): (std): ERICSSON TELEFON AB L M ; ERICSSON TELEFON AB L M PUBL ; TELEFONAKTIEBOLAGET LM ERICSSON PUBL

Inventor(s): (std): WANG YI PIN ERIC ; ADHIKARY ANSUMAN ; JOHANSSON NIKLAS

Agent(s): KEARNS BRIAN ET AL

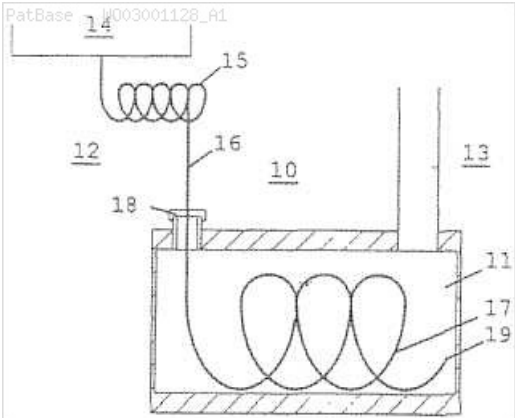
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX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

17) Family number: 26198457 (WO03001128A1) © PatBase

Title: METHOD AND DEVICE FOR CRYOGENIC REFRIGERATION

Abstract: The invention relates to a method for operating a helium evaporation refrigerator (10). According to said method, super-fluid He is pumped out of a refrigeration chamber (11) and normal-fluid He is supplied to said refrigeration chamber (11), where it is converted into super-fluid He, at least one heat exchanger being used (17) to convert the normal-fluid helium into super-fluid helium. In said heat exchanger, the normal-fluid helium is in indirect thermal contact with the super-fluid helium and is separated by material from the super-fluid helium of the refrigeration chamber. The invention also relates to a device for cryogenic refrigeration (1 K-Pot).

Classifications:
International (IPC 8-9): F25B9/02 F25B9/12 F25D3/10 (Advanced/Invention); F25B9/02 F25B9/12 F25D3/10 (Core/Invention)
International (IPC 1-7): F25B9/02 F25B9/12 F25D3/10
CPC: F25B9/12
European: F25B9/12



Family:

Publication number	Publication date	Application number	Application date
DE10130171 A1	20030102	DE20011030171	20010622
DE10130171 B4	20080131	DE20011030171	20010622
WO03001128 A1	20030103	WO2002EP06466	20020612

Priority:

DE20011030171 20010622

Probable Assignee: MAX PLANCK GESELLSCHAFT**Assignee(s):** (std): KREYSA ERNST ; MAX PLANCK GES ; MAX PLANCK GESELLSCHAFT ; RACCANELLI ANDREA ; REICHERTZ LOTHAR A**Assignee(s):** MAX PLANCK GESELLSCHAFT ZUR FOERDERUNG DER WISSENS ; MAX PLANCK GESELLSCHAFT ZUR FOERDERUNG DER WISSENSCHAFTEN E V**Inventor(s):** (std): KREYSA ERNST ; RACCANELLI ANDREA ; REICHERTZ LOTHAR A**Designated states:** AT BE CH CY DE DK ES FI FR GB GR IE IT JP LU MC NL PT SE TR US**18) Family number: 32508058** (US2005281290A)

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Title: SIGNAL ACQUISITION IN A WIRELESS COMMUNICATION SYSTEM

Abstract: Each base station transmits a TDM pilot 1 having multiple instances of a pilot-1 sequence generated with a PN1 sequence and a TDM pilot 2 having at least one instance of a pilot-2 sequence generated with a PN2 sequence. Each base station is assigned a specific PN2 sequence that uniquely identifies that base station. A terminal uses TDM pilot 1 to detect for the presence of a signal and uses TDM pilot 2 to identify base stations and obtain accurate timing. For signal detection, the terminal performs delayed correlation on received samples and determines whether a signal is present. If a signal is detected, the terminal performs direct correlation on the received samples with PN1 sequences for K_1 different time offsets and identifies K_2 strongest TDM pilot 1 instances. For time synchronization, the terminal performs direct correlation on the received samples with PN2 sequences to detect for TDM pilot 2.

Classifications:

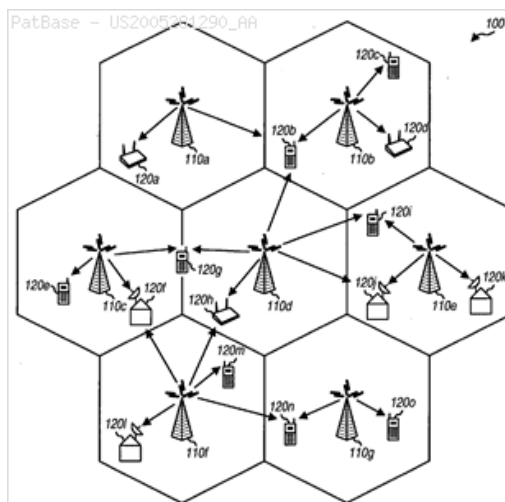
International (IPC 8-9): H04B1/00 H04B1/707 H04B1/7077 H04B1/76 H04B7/26 H04J1/00 H04J11/00 H04J13/00 H04J3/00 H04J3/06 H04J3/14 H04L H04L27/00 H04L27/26 H04W56/00 H04W56/001 H04W74/04 H04W76/02 (Advanced/Invention); H04B1/707 H04B7/26 H04W74/04 (Advanced/Non-invention); H04B1/00 H04L27/00 (Core/Invention); H04B H04L (Subclass/Invention)

International (IPC 1-7): H04B1/707 H04J3/06 H04L27/00 H04L27/26

CPC: H04L27/2657 H04L27/2675 H04L5/0048 H04L5/0026 H04L25/0204 H04L25/0386 H04L27/2613 H04L27/2662 H04J1/02 H04J3/0611 H04B1/7073 H04B1/7077 H04B2201/70701 H04B2201/70702

European: H04B1/7077 H04L27/26M1R3 H04L27/26M5C5 H04L5/00C5 T04B1/707G T04B1/707J T04B201/707G T04B201/707J T04L25/02C1 T04L25/03E3 T04L5/00A4

US: 370/294 370/320 370/321 370/324 370/337 370/344 370/345 370/347 370/350 370/350S 370/442 370/500 370/500P 370/508 370/510 370/510S 370/537 375/130 375/134 375/135 375/137 375/141 375/142 375/146 375/146P 375/150 375/343 375/345 375/350 375/442 375/500 375/510 375/E1.01 375/E10.10S

**Family:**

Publication number	Publication date	Application number	Application date
AR049928 AA	20060913	AR2005P102530	20050621
AU2005264973 AA	20060126	AU20050264973	20050614
AU2009251108 AA	20100121	AU20090251108	20091222
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RU2444841 C2	20120310	RU20100111718	20100326
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Priority:

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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 KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG 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

19) Family number: 68729776 (WO18037599A1)

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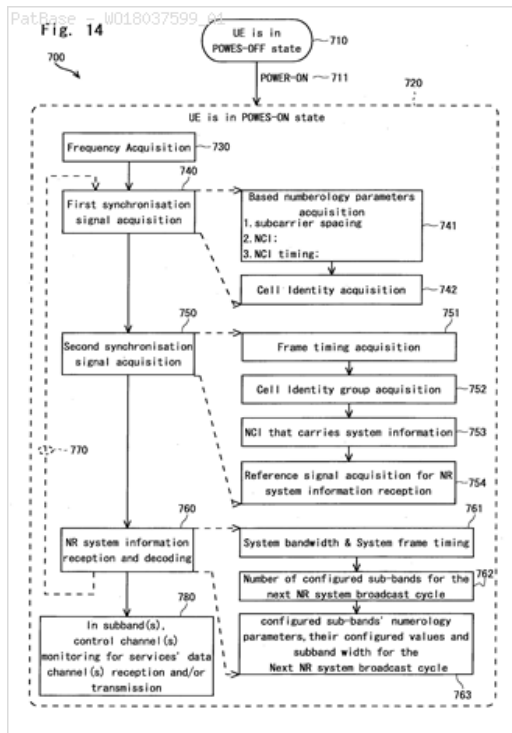
Title: SYSTEM AND METHODS FOR REALISING ADAPTIVE RADIO ACCESS TECHNOLOGY IN 5G WIRELESS COMMUNICATION SYSTEM

Abstract: An advanced wireless communication system and method for use therein provides adaptive radio access using a plurality of configurable OFDM-based waveforms. The method comprises: receiving, at a UE and on a band-specific fixed system subband, one or more synchronisation signals; determining, at the UE, and according to the synchronisation signals, a base waveform numerology; and receiving, at the UE and according to the base waveform numerology, system information, wherein the system information defines parameters for a service or services.

Classifications:

International (IPC 8-9): H04L27/26 (Advanced/Invention)

CPC: H04L5/001 H04L5/0048 H04L5/0087 H04L5/0091 H04L27/0008 H04L27/2655

**Family:**

Publication number	Publication date	Application number	Application date
WO18037599 A1	20180301	WO2017JP09110	20170227

Priority:

AU20160903365 20160824

Probable Assignee: NEC CORP**Assignee(s):** (std): NEC CORP**Inventor(s):** (std): NGUYEN PHONG ; SASAKI TAKAHIRO**Agent(s):** IEIRI TAKESHI

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 DJ 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 KH KM KN KP KR KW 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