

Search history

Search (pd=W02015/029091) (Results 0)

1:

Search (pn=W02015/029091) (Results 1)

2:

Search [SP]: optical transmission apparatus, optical reception apparatus, optical communication apparatus, optical communication system, and methods of controlling them an optical transmission apparatus (1_1) according to the present invention includes a first transmission unit (11_1) that transmits a first optical transmission signal (21_1), a second transmission unit (11_2) that transmits a second optical transmission signal (21_2), and an output unit that outputs, when the first optical transmission signal (21_1) and the second optical transmission signal (21_2) share a set of information, both the first optical transmission signal (21_1) and the second optical transmission signal (21_2) to a first path (26_1) and outputs, when the first optical transmission signal (21_1) and the second optical transmission signal (21_2) do not share the set of information, one of the first optical transmission signal (21_1) and the second optical transmission signal (21_2) to a second path (26_2). (Results 500)

Search 3 and orthogonal (Results 196)

4:

Search 4 and multiplex (Results 66)

5:

Title: DIGITAL COMMUNICATION APPARATUS

Abstract: Source: US2001001617A A highly reliable and high-speed data transmission is made by using an FH or MFSK mode as suitably selected according to the usage of channels. When a reception signal is entered into a receiver through a transmission line, (i) a signal processing unit supplies the spectrum intensity values of carrier frequencies, (ii) a channel detection unit controls the phase of a time slot based on the spectrum intensity values, selects the MFSK or FH modulation mode, and supplies reception code data corresponding to detected carrier frequencies, and (iii) a decoder supplies reception information data based on the reception code data. When transmission information data are entered into a transmitter, (i) a coding unit supplies, according to the selected modulation mode, transmission code data based on the transmission information data, (ii) a channel generation unit supplies, based on the transmission code data, carrier frequencies to be used and (iii) a waveform generation unit supplies a transmission signal to a transmission line.

Classifications:

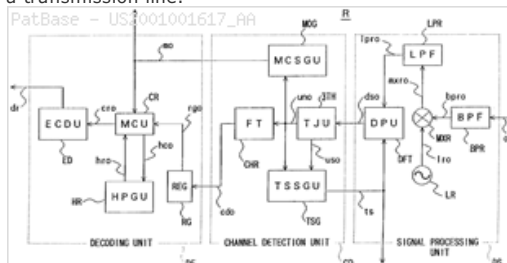
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International (ipc 1-7): H03D3/00 H04B1/707 H04B1/713 H04B15/00 H04B7/08 H04B7/10 H04J4/00 H04L27/00 H04L27/10 H04L27/14 H04L27/26 H04L27/30

CPC: H04L1/0068 H04B1/713 H04B2001/71563 H04L1/0041 H04L1/0054 H04L1/0071 H04L1/20 H04L5/0046 H04L5/006 H04L27/0012 H04L27/103 H04L27/2608

European: H04B1/713 H04L1/00B3 H04L1/00B5L H04L1/00B7R1 H04L1/00B7V H04L1/20 H04L27/00M H04L27/10 H04L27/10A H04L27/26M1P H04L5/00C4A H04L5/00C7A T04B1/713S1 T04B1/7156A

US: 370/344 370/479 375/130 375/131 375/132 375/133 375/134 375/140 375/200 375/202 375/219 375/222 375/260 375/267 375/275 375/303 375/324 375/334 375/334S 375/347 375/347P 375/E01.033 375/E1.033 375/E10.33 375/E10.33S

**Family:**

Publication number	Publication date	Application number	Application date
EP0779726 A2	19970618	EP19960120002	19961212
EP0779726 A3	19971210	EP19960120002	19961212
JP10079690 A2	19980324	JP19960311132	19961122
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KR100431588 B1	20041014	KR19960064289	19961211
KR19970056495 A	19970731	KR19960064289	19961211
US2001001617 AA	20010524	US19990266633	19990311
US5835529 A	19981110	US19960763338	19961211
US6028886 A	20000222	US19980111886	19980708
US6414983 BA	20020702	US20000539246	20000330
US6415005 BB	20020702	US19990266633	19990311

Priority:

JP19950322957 19951212	JP19950322967 19951212	JP19960002838 19960111
JP19960183000 19960712	US20000539246 20000330	US19990266633 19990311
JP19960311132 19961122	US19980111886 19980708	US19960763338 19961211

Probable Assignee: MATSUSHITA ELECTRIC INDUSTRIAL CO LTD

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Agent(s): KOYAMA HIROKI; MAEDA HIROSHI

Designated states: DE FI FR NL SE

Title: METHOD AND APPARATUS FOR PROCESSING A DATA SERIES INCLUDING PROCESSING PRIORITY DATA

Abstract: Source: US2004120345A A reception control section 11 for receiving the information including data and its transmission format information from a memory or communication channel, a separating section 12 for analyzing and separating received information, a transmitting section 13 for transmitting information to a memory or transmission channel, a video extending section 14 for extending a video, and video-extension control section 15 control the processing state of said video extending section 14 for extending at least one or more videos and a video synthesizing apparatus constituted with a video synthesizing section 16 for synthesizing videos in accordance with extended information, an output section 17 for outputting a synthesized result, and a terminal control section 18 for controlling the above means makes it possible to synthesize a plurality of videos at the same time and correspond to a dynamic change of transmission format information.

Classifications:

International (IPC 8-9): G06F13/00 G06F15/16 G10L19/00 H04B1/66

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H04N7/16 (Core/Non-invention)

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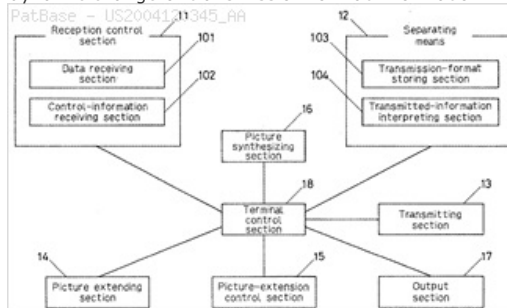
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US: 348/387.1 348/387.100P 348/461 348/461S 348/468 348/468S 348/E07.081 348/E07.084 348/E7.081 348/E7.084
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WO9842132 A1	19980924	WO1998JP01084	19980313

Priority:

EP19980907236	19980313	EP19980907236	19980313	JP19970062667	19970317
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Probable Assignee: PANASONIC CORP

Assignee(s): (std): ARAKAWA HIROSHI ; ETOH MINORU ; MATSUSHITA ELECTRIC IND CO LTD ; PANASONIC CORP ; YAMAGUCHI TAKAO

Assignee(s): MATSUSHITA ELECTRIC INDUSTRIAL CO LTD ; MATSUSHITA ELECTRIC INDUSTRIAL CO ; MATSUSHITA ELECTRIC IND CO

Inventor(s): (std): MINORU ETOH ; TAKAO ETOH MINORU ARAKAWA HIRO ; TAKAO YAMAGUCHI ; TOSHI YAMAGUCHI TAKAO EIDO ; HIROSHI ARAKAWA ; HIROSHI KUSAYAMA ; HIROSHI YAMAGUCHI TAKAO ETOH M ; YAMAGUCHI TAKAO ; HIROSHI YAMAGUCHI TAKAO EIDO T ; ETOH MINORU ; EITO MINORU ; ARAKAWA HIROSHI

Inventor(s): KUSAYAMA HIROSHI ; YAMAGUCHI TAKAO C OMATSUSHITA ELECTRIC IND CO... ; YAMAGUCHI TAKAO EIDO TOSHI ; YAMAGUCHI TAKAO ETOH MINORU ARAKAWA HIROSHI ; YAMAGUCHI TAKAO EIDO TOSHI KUSAYAMA HIROSHI ; ARAKAWA HIROSHI C OMATSUSHITA ELECTRIC IND CO... ; ETOH MINORU ARAKAWA HIROSHI YAMAGUCHI TAKAO ; ETOH MINORU C OMATSUSHITA ELECTRIC IND CO LTD...

Agent(s): GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAUESSER ANWALTSSOZIETAET ; RATNERPRESTIA

Designated states: AT BE CH CN DE DK ES FI FR GB GR IE IT KR LI LU MC NL PT SE US

Title: Method and apparatus for transmitting and receiving signals having a carrier interferometry architecture

Abstract: Source: US2002034191A Principles of quantum interferometry are used to create a signal architecture (known as carrier interferometry) for wireless and waveguide electromagnetic-wave communications. Carrier interferometry provides unprecedented bandwidth efficiency and enables substantial improvements in interference rejection, power efficiency, and system versatility. The carrier interferometry architecture also enables simpler transceiver designs that facilitate digital up-conversion and down-conversion.

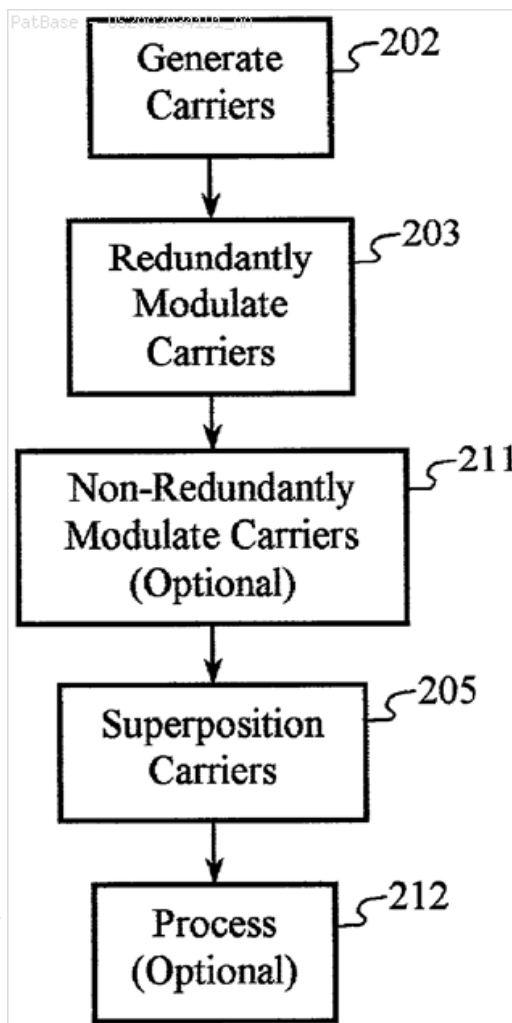
Classifications:

International (IPC 8-9): B01J12/00 B01J19/08 B01J8/02 C01B3/34 G01S13/28 H01L35/00 H04B1/00 H04B1/69 H04B1/707 H04B1/717 H04B7/02 H04B7/06 H04B7/10 H04J11/00 H04J13/00 H04J14/00 H04K1/10 H04L1/02 H04L1/04 H04L1/06 H04L27/00 H04L27/26 H04L27/28 H04L27/36 H04L5/02 H04L5/06 (Advanced/Invention); H01M16/00 H04B1/00 H04B1/69 H04B1/707 H04B7/06 H04L5/02 (Advanced/Non-invention); B01J12/00 B01J19/08 B01J8/02 C01B3/00 H01L35/00 H04B1/00 H04B1/707 H04B7/02 H04J11/00 H04J14/00 H04K1/10 H04L1/02 H04L27/00 H04L27/26 H04L5/02 (Core/Invention); H01M16/00 H04B1/707 H04B7/04 H04L5/02 (Core/Non-invention)

International (IPC 1-7): C01B3/34 G01S13/28 H01L35/00 H01L37/00 H01M8/04 H01Q3/22 H03K7/02 H03K7/04 H04B1/69 H04B1/707 H04B10/04 H04B7/00 H04B7/02 H04B7/204 H04B7/216 H04J11/00 H04J15/00 H04K1/00 H04K1/10 H04L1/04 H04L1/06 H04L27/0004 H04B2201/70706 H04L5/0023 H04L25/0216 H04L27/2601 H04L27/2614 H04B1/707 H04B7/02 H04B7/06 H04L1/06 H04L5/026 H04L5/06 H04J13/00 H04J13/10 H04J13/18 H04J2013/0037 H04L1/0056 H04L25/0202 B01J8/0278 B01J12/007 B01J19/088 B01J2208/00495 B01J2219/0809 B01J2219/0875 B01J2219/0877 B01J2219/0892 B01J2219/0894 C01B3/342 C01B2203/00 C01B2203/0205 C01B2203/06 C01B2203/066 C01B2203/0861 C01B2203/142 C01B2203/82 H01L35/00 H01M8/0618 H01M16/00 H04L27/00 H04L27/2697 H04L27/2637 H04L27/265 H04L27/2649 H04L5/0007 H04L5/0026 H04L5/0039 H04L5/0064 H04L25/022 H04L25/03834 H04L25/03159 H04L27/2602 H04L27/2621 H04L27/2631 H04L2025/03414 H04L2025/03426 H04L5/0016 H04L5/0048 H04L5/0066 H04L25/0204 H04L25/0228 H04L27/262 H04B10/25752 H04J14/0224 H04L5/023 H04L25/03343 H04L27/2647 H04L1/04 H04B1/7174 H04B7/0697 H04B7/12 H04J13/0077 H04J14/02 H04J14/0298 H04L5/0021

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Family:

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Probable Assignee: S AQUA SEMICONDUCTOR LLC

Assignee(s): (std): AQUITY LLC ; AQVITY LLC ; ARVIN TECHNOLOGIES INC ; KIMKIS COMM CORP ; GENGHISCOMM CORP ; GENGHISCOMM LLC ; LOT 41 ACQUISITION FOUNDATION ; STEVEN J SHATTIL ; SHATTIL STEVE J ; SHATTIL STEVE ; LOT ACQUISITION FOUNDATION LLC ; SHATTIL STEVEN JAMES ; SHATTIL STEVEN J ; LOT 41 ACQUISITION FOUNDATION LLC

Assignee(s): S AQUA SEMICONDUCTOR LLC ; SMALING RUDOLF M ; TAYLOR WILLIAM ; ALAGAR ARNOLD ; STEVE J SHATTIL ; GENGHISCOMM CORP BOULDER ; JPMORGAN CHASE BANK NATIONAL ASSOCIATION FOR ITSELF AND ADMINISTRATIVE AGENT FOR LENDERS AS ; KIMKIS COMMUNICATIONS CORP ; CIRAY MEHMET S ; JPMORGAN CHASE BANK NATIONAL ASSOCIATION FOR ITSEL ; CAIN RODNEY H

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Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN 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 PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Title: METHOD FOR ROUTING DATA PACKETS USING AN IP ADDRESS BASED IN GEO POSITION

Abstract: Source: US2001036183A Method of routing data over a network in which contact is made with a home network to determine the reported geo-position, using this geo-position to transmit data to the device over a path through a node in which the node reads the geo-position, accesses a list of possible recipients and their geo-positions, compares its location to the positions, selects a recipient based at least in part on the proximity of the recipient to the device, and transmits the data over the best path. Eventually, the device becomes the recipient. A geo-position may be transmitted as part of an IP address. The geo-position information can be generated from a GPS receiver. This method and/or IP address may be used in a method of doing business in which the geo-position is used to identify the source and location for delivery. This information may be incorporated into a purchase order or confirmation receipt.

Classifications:

International (ipc 8-9): G01S19/04 G01S19/09 G01S19/10 G01S19/11 G01S19/21 G01S19/42 G01S19/46 G01S5/14 G01S7/36 G06F15/16 G06F17/30 G06F7/00 G06K7/10 G08C19/16 H03D3/24 H03K7/02 H03K7/04 H03K7/06 H03K7/08 H03K9/04 H03K9/06 H04B1/00 H04B1/69 H04B1/7163 H04B1/717 H04B1/7176 H04B10/04 H04B10/12 H04B10/155 H04B14/02 H04B14/04 H04B3/00 H04B3/52 H04B3/54 H04J11/00 H04J3/24 H04J7/02 H04L1/08 H04L12/00 H04L12/28 H04L12/437 H04L12/50 H04L12/54 H04L12/56 H04L12/66 H04L12/733 H04L12/751 H04L12/841 H04L12/933 H04L25/00 H04L25/03 H04L25/49 H04L27/00 H04L27/01 H04L29/06 H04L29/08 H04L29/12 H04L5/14 H04M1/00 H04M11/00 H04N19/66 H04Q1/00 H04Q5/22 H04W4/02 H04W40/20 H04W8/26 H04W99/00 (Advanced/Invention); H03K7/08 H04B1/69 H04B1/7163 H04B1/7176 H04B14/02 H04L29/12 H04M7/00 H04W64/00 H04W80/04 (Advanced/Non-invention); G01S19/00 G01S5/14 G06F15/16 H04B1/69 H04B3/00 H04J11/00 H04L12/28 H04L12/56 H04L12/66 H04L25/00 H04L25/49 H04L27/00 H04L29/06 H04L29/08 H04L5/14 H04M1/00 H04Q5/00 (Core/Invention); H04B1/69 H04L29/12 H04M7/00 (Core/Non-invention); H04L (Subclass/Invention)

International (ipc 1-7): G01S5/02 G02B6/00 G06F17/30 G06F7/00 H04B1/69 H04B10/12 H04B7/185 H04J3/22 H04L H04L12/28 H04L27/00 H04M11/00

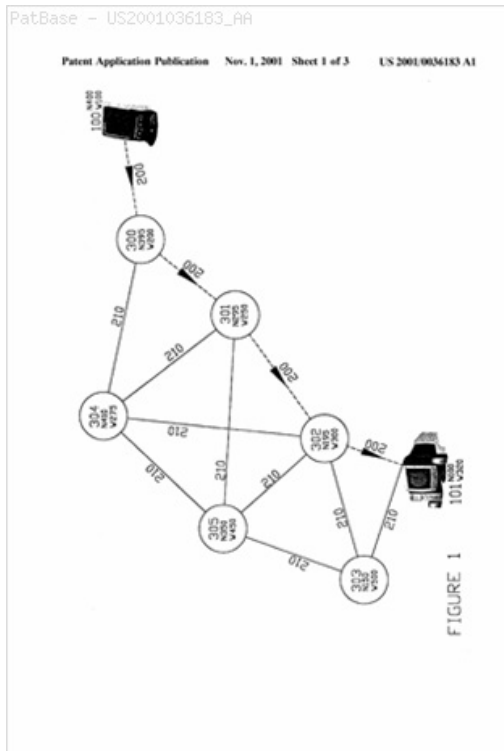
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European: G01S19/10 G01S19/11 G01S19/21 G01S19/21S G01S19/46 G01S5/14 G01S5/14B3 G06K7/10A7A H04B1/7163 H04B1/7163A H04B1/7163C H04B1/7176 H04B1/717A H04B10/508 H04B10/524 H04B14/02B H04B3/54 H04L12/26M3B2 H04L12/28P1 H04L12/413 H04L12/437 H04L12/46E H04L12/58G H04L12/58U H04L12/66 H04L25/03E1 H04L25/49 H04L25/49A H04L27/00B H04L29/06 H04L29/06K H04L29/08A7 H04L29/08N17 H04L29/08N31Y H04L29/12A6 H04L43/08E2 H04L45/02 H04L45/122 H04L5/14T H04L51/14 H04L51/36 H04L61/35 H04W4/02 H04W4/20 H04W40/20 H04W8/26 H04W99/00 T04B1/69U T04B1/69U1C T04B1/7163 T04B1/7176 T04B203/54M6 T04B203/54P10 T04L12/56W6B T04L29/08A7 T04L29/12A T04L29/12A6 T04L29/12A9A T04L5/00C4 T04L61/00 T04L61/35 T04L61/60A T04W64/00 T04W72/04 T04W8/26 T04W80/04

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Family:

Publication number	Publication date	Application number	Application date
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Assignee(s): LINEAR DATA SYSTEMS LLC ; IOWA FARM BUREAU ; BIRD CATHERINE PESEK ; HALVORSON PAUL A ; PRINCIPAL LIFE INSURANCE CO ; SCHWESER GILBERT CARL ; STONEHOCKER TIMOTHY L ; LORENZ ROBERT A ; ROHDE CHARLES A ; ROSS DONALD M ; REIHMAN RANDY L ; DLB LTD ; BAYCH VICKIE ; ALBERTA INNOVATES TECHNOLOGY FUTURES ; BAYCH LES

Inventor(s): (std): B D MELICK ; BAYCK LESLIE D ; BRUCE N MELICK ; D M SNYDER ; DAVID M SNYDER ; G P PROBST ; KENNEDY PHILLIP T ; L D BAYCH ; LESLIE D BAYCH ; GREGORY P PROBST ; P T KENNEDY ; PHILIP T KENNEDY ; STANFORD JON G ; STANFORD JOHN G ; SONG XUEJIE ; SONG XUEGIE ; SNYDER DAVID M ; MELICK BRUCE N ; MELICK BRUCE D ; GERKE JOSEPH G ; BAYCH LESLIE D ; PROBST GREGORY P ; ROLAND DENNIS L ; KENNEDY PHILIP T ; GERKE JOSEPH A

Inventor(s): SNYDER DAVID ; PROBST GREGORY ; PHILLIP T KENNEDY ; KENNEDY PHILIP ; LESLIE D BAYCK ; MELICK BRUCE ; GERKE JOSEPH ; BRUCE D MELICK ; BAYCH LESLIE

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; TORYS LLP; WOMBWELL FRANCIS; WOLFF BREGMAN AND GOLLER; MCKEE VOORHEES AND SEASE PLC; MCKEES VOORHEES AND SEASE PLC; MCKEE VOORHEES AND SEASE P L C; MCKEE VOORHEES AND SEASE; MCKEE VORHEES AND SEASE PLC; GOODHUE JOHN D

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 YU ZA ZM ZW

Title: TSTD APPARATUS AND METHOD FOR A TDD CDMA MOBILE COMMUNICATION SYSTEM

Abstract: Source: US2002061005A Disclosed a transmission apparatus in a CDMA mobile communication system. Transmission frames each have a plurality of time slots, and each of the time slots includes two data parts having the same length, a midamble intervening between the data parts, and a guard period for dividing the consecutive time slots. The transmission apparatus modulates the frames into a radio signal with a modulation signal and transmits the modulated radio signal using a plurality of antennas. A power amplifier amplifies the radio signal. A controller generates a switching control signal in a guard period of time slots of a frame associated with the radio signal amplified by the power amplifier. A switch switches the amplified radio signal from the power amplifier between a first and a second antenna in response to the switching control signal.

Classifications:

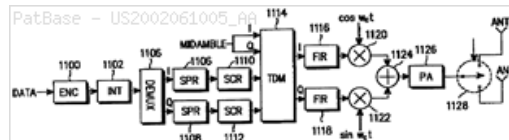
International (IPC 8-9): G01N1/40 H04B1/44 H04B1/54 H04B1/56 H04B1/707 H04B7/005 H04B7/06 H04B7/216 H04J13/00 H04J13/04 H04J3/00 H04L5/02 H04Q7/32 H04Q7/38 H04W4/00 H04W52/18 H04W88/02 (Advanced/Invention); H04B1/54 H04B1/56 H04B1/707 (Advanced/Non-invention); G01N1/40 H04B1/54 (Core/Invention)

International (IPC 1-7): H04B1/56 H04B1/707 H04B7/005 H04B7/06 H04B7/216 H04J13/04 H04J3/00 H04L5/02

CPC: H04B1/44 H04B1/54 H04B7/0604 H04B7/061 H04B7/0617 H04B7/0619 H04B7/0673 H04W52/143 H04W52/228 H04W52/42 H04J13/00

European: H04B1/44 H04B7/06B1 H04B7/06B2F H04B7/06C1F H04J13/00 H04W52/14D H04W52/22V H04W52/42 T04B1/54 T04B7/005B1L T04B7/06B2F T04B7/06C1B T04B7/06C1F T04B7/06C2F T04W52/14D

US: 370/280 370/280P 370/334 370/335 370/342 370/342P 370/347 370/347S 375/14 375/140 375/140S



Family:

Publication number	Publication date	Application number	Application date
AU200194307 A1	20020415	AU20010094307	20011005
AU200194307 A5	20020415	AU20010094307	20011005
AU2004200047 AA	20040129	AU20040200047	20040107
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CA2393003 C	20110208	CA20012393003	20011005
CA2531827 AA	20020411	CA20012531827	20011005
CA2531827 C	20110517	CA20012531827	20011005
CN1213545 C	20050803	CN20018002991	20011005
CN1310440 C	20070411	CN200410046537	20011005
CN1393060 A	20030122	CN20018002991	20011005
CN1551526 A	20041201	CN200410046537	20011005
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DE60133229 T2	20090326	DE20016033229T	20011005
DE60138800 D1	20090709	DE20016038800	20011005
EP1232574 A1	20020821	EP20010974936	20011005
EP1232574 A4	20040707	EP20010974936	20011005
EP1232574 B1	20090527	EP20010974936	20011005
EP1437843 A1	20040714	EP20040004040	20011005
EP1437843 B1	20080312	EP20040004040	20011005
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JP3889760 B2	20070307	JP20040335172	20041118
KR100421139 B1	20040304	KR20010061544	20011005
KR20020027283 A	20020413	KR20010061544	20011005
US2002061005 AA	20020523	US20010972814	20011005
US2006013151 AA	20060119	US20050209239	20050823
US7697486 BB	20100413	US20050209239	20050823
US7907573 BB	20110315	US20010972814	20011005
WO229990 A1	20020411	WO2001KR01669	20011005

Priority:

AU20040200047 20040107	CA20012393003 20011005	CA20012531827 20011005
EP20010974936 20011005	WO2001KR01669 20011005	US20010972814 20011005
US20050209239 20050823	KR20000059389 20001005	KR20000067558 20001109
JP20020533489 20011005	JP20020533489T 20011005	

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

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

Assignee(s): SAMSUNG ELECTRONICS CO ; SAMSUNG ELECTRONICS COMPANY LIMITED ; KIM SUNG JIN ; KWAK BYUNG JAE ; LEE HYUN WOO ; LEE JONG HYEUK ; LEE JU HO ; LEE YOUNG SUK ; SAMSUNG ELECTRONIC CO ; SAMSUNG ELECTRONIC CO LTD

Inventor(s): (std): BYUNG JAE KWAK ; HYUN WOO LEE ; JONG HYEUK LEE ; JU HO LEE ; KIM SUNG JIN ; KWAK BYUNG JAE ; LEE HYUN WOO ; LEE JONG HYEUK ; LEE JU HO ; LEE YOUNG SUK ; LEE YOUNG SUK ; SUNG JIN KIM ; YOUNG SUK LEE ; LEE YONG SEOK ; LEE JONG HYEOK ; LEE HYEON U ; KWAK BYEONG JAE ; KIM SEONG JIN ; JONG HYEUK LEE JU HO LEE YOUNG

Inventor(s): LEE JU HO LEE YOUNG SUK KIM SUNG JIN KWAK BYUNG JAE LEE HYUN WOO LEE JONG HYEUK ; LEE JU HO LEE YOUNG SUK KIM SUNG JIN KWAK BYUNG JAE ; LEE JU HO LEE YOUNG SUK KIM SUNG JIN KWAK

Agent(s): GRIFFITH HACK; MARKS AND CLERK; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAUESSER ANWALTSSOZIELTÄT; DILWORTH AND BARRESE LLP; FARRELL LAW FIRM LLP; FARRELL LAW FIRM PC

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

Title: FILTER APPARATUS, RECEPTION APPARATUS, TRANSMISSION APPARATUS, DIFFUSION MODULATION APPARATUS, PSEUDO-RANDOM NUMBER SEQUENCE OUTPUT APPARATUS, FILTER METHOD, RECEPTION METHOD, TRANSMISSION METHOD, DIFFUSION MODULATION METHOD, PSEUDO-RANDOM NUMBER SEQUENCE OUTPUT METHOD, AND PROGRAM

Abstract: Source: US2004146095A A filter (201) accepts spreading code sequences or the like as input sequences of a chip rate $1/D$, the accepted spreading code sequences are sequentially delayed and distributed by delay circuits (202) connected in series, delay times of individual signals are an arithmetical progression with a chip length D being a common difference D , the individual signals are amplified with spreading codes by amplifiers (203), amplification factors for the individual signals are a geometrical progression of a common ratio r , the sum of the amplified signals is obtained by addition in an adder (204), and the result is sequentially output as an output sequence.

Classifications:

International (IPC 8-9): G06F17/00 G06F7/58 G09C1/00 H03H17/02 H03H17/06 H04B1/707 H04B1/709 H04J13/00 H04J13/04 H04J13/16 H04J14/02 H04L9/26 (Advanced/Invention); G06F7/58 G09C1/00 H03H17/02 H03H17/06 H04B1/707 H04J13/00 H04L9/18 (Core/Invention)

International (IPC 1-7): G06F17/00 G06F7/58 G09C1/00 H03H17/02 H03H17/06 H03K3/84 H04B1/69 H04B1/707 H04J13/00 H04J13/04 H04L9/26

CPC: H03H17/0254 H04B1/7093 H04J13/0018 H04J13/10

European: H03H17/02F4 H04B1/7093 H04J13/00B3 H04J13/10 T04J13/10

US: 375/136 375/142 375/147 375/150 375/E01.018 375/E1.018

PatBase - US2004146095_AA

Filed: Application Publication Jul. 29, 2004 Sheet 1 of 26 US 2004/0146095 A1

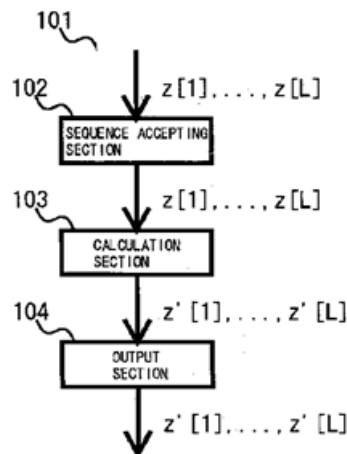


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
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CN101447805 A	20090603	CN200810166113	20020326
CN1620756 A	20050525	CN20028007370	20020326
EP1401100 A1	20040324	EP20020708665	20020326
EP1401100 A4	20050622	EP20020708665	20020326
JP2002290274 A2	20021004	JP20010087480	20010326
JP2003115819 A2	20030418	JP20010306794	20011002
JP2003249873 A2	20030905	JP20020045255	20020221
JP3531869 B2	20040531	JP20020045255	20020221
JP3556190 B2	20040818	JP20010306794	20011002
JP4210717 B2	20090121	JP20010087480	20010326
TWI233556 B	20050601	TW20020106129	20020326
US2004146095 AA	20040729	US20040473310	20040301
US7411997 BB	20080812	US20040473310	20040301
WO02078183 A1	20021003	WO2002JP02902	20020326
WO02078183 C1	20030116	WO2002JP02902	20020326

Priority:

JP20010087480 20010326 JP20010306794 20011002 WO2002JP02902 20020326
JP20020045255 20020221

Probable Assignee: CHAOSWARE INC

Assignee(s): (std): JAPAN SCIENCE AND TECH CORP ; UMENO KEN ; SHIH SHENGHUNG ; CHAOSWARE INC ; INDP ADMINISTRATIVE INST NIMS ; INDEPENDENT ADMINISTRATIVE INSTITUTION JAPAN SCIENCE AND TECHNOLOGY AGENCY ; YAMAGUCHI AKIHIRO ; UMENO TAKESHI

Assignee(s): UMEO KEN ; JAPAN SCIENCE AND TECHNOLOGY AGENCY ; AKIHIRO YAMAGUCHI ; KEN UMENO ; INDEPENDENT ADMINISTRATIVE INSTITUTION JAPAN SCIEN ; JAPAN SCIENCE AND TECHNOLOGY CORP

Inventor(s): (std): AKIHIRO YAMAGUCHI ; ISHI MASAHIRO ; KEN UMENO ; SHENGHUNG SHIH ; SHIH SHENGHUNG ; UMENO KEN ; UMENO TAKESHI ; YAMAGUCHI AKIHIRO

Agent(s): LUCE FORWARD HAMILTON AND SCRIPPS LLP; BROOK MITCHELL P; MITCHELL P

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

Title: TRANSMISSION DEVICE, RECEPTION DEVICE AND RADIO COMMUNICATION METHOD

Abstract: Source: US2004174812A On the transmitting side a spread modulated signal that has undergone spread spectrum processing and an information modulated signal that has not undergone spread spectrum processing are **multiplexed** in a same frequency band. On the receiving side the specific modulated signal is first demodulated by a spread spectrum demodulation section 1803, then a replica signal of the specific modulated signal is generated by a spread spectrum modulated signal regeneration section 1805, and the information signal that has not undergone spread spectrum processing is extracted by eliminating the replica signal from the **multiplex** signal. By this means, even when a large number of information signals are transmitted in a same frequency band, these signals can be separated and demodulated satisfactorily on the receiving side.

Classifications:

International (ipc 8-9): H04B1/707 H04B1/7075 H04B1/7107 H04B1/711 H04J11/00 H04J13/00 H04J13/02 H04L1/00 H04L27/00 H04L27/04 H04L27/06 H04L27/18 H04L27/227 H04L27/26 H04L27/28 H04L27/34 H04L27/36 H04L27/38 H04L5/00

H04L5/02 (Advanced/Invention);

H04L27/00 H04L27/18 H04L5/00 (Advanced/Non-invention);

H04B1/707 H04J11/00 H04J13/02 H04L1/00 H04L27/00 H04L27/18

H04L27/26 H04L5/02 (Core/Invention)

International (ipc 1-7): H04B1/707 H04J11/00 H04J15/00 H04J3/06 H04L27/18

CPC: H04B1/711 H04B1/707 H04B1/7075 H04B2201/70705 H04J13/00 H04L1/0003 H04L1/0023 H04L5/0016 H04L5/0048 H04L27/227 H04L27/2602 H04L27/34 H04L27/38 H04L2027/004 H04L2027/0061 H04L5/0044 H04L27/364 H04B2201/70716 H04B2201/70728 H04L5/0007 H04L27/2662 H04L27/18

European: H04B1/707 H04B1/7075 H04J13/00 H04L1/00A1M

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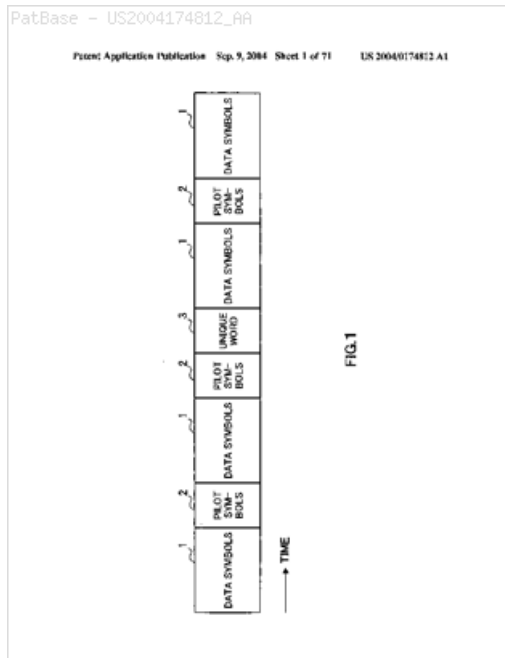
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T04L5/00C5

US: 1/1 370/208 370/215 370/215P 370/514 370/514S 375/142

375/146 375/148 375/260 375/260S 375/295 375/295P 375/340

375/E1.002 375/E1.003 375/E10.02S 375/E10.03S



Family:

Publication number	Publication date	Application number	Application date
AU2002318614 AA	20030303	AU20020318614	20020723
CN1568592 A	20050119	CN20028020020	20020723
CN1568592 B	20130703	CN20028020020	20020723
EP1416657 A1	20040506	EP20020746136	20020723
EP1416657 A4	20070704	EP20020746136	20020723
JP2003179573 A2	20030627	JP20020206150	20020715
JP4119696 B2	20080716	JP20020206150	20020715
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KR100896835 B1	20090512	KR20087032081	20020723
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KR20090014227 A	20090206	KR20087032081	20081230
US2004174812 AA	20040909	US20040485115	20040204
US2010202562 AA	20100812	US20100767117	20100426
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US2013251004 AA	20130926	US20130891027	20130509
US2015365129 AA	20151217	US20150792917	20150707
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US8462615 BB	20130611	US20120606327	20120907
US9112595 BB	20150818	US20130891027	20130509
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Priority:

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US20040485115 20040204	US20100767117 20100426	US20020485115 20020723
WO2002JP07407 20020723	US20120606327 20120907	US20130891027 20130509
US20150792917 20150707	WO2002JP07407 20040209	WO2002JP07407 20081230

Probable Assignee: INTERDIGITAL PATENT HOLDINGS INC

Assignee(s): (std): MATSUOKA AKIHIKO ; MATSUSHITA ELECTRIC IND CO LTD ; MURAKAMI YUTAKA ; ORIHASHI MASAYUKI ; HARRIS CORP ; TAKABAYASHI SHINICHIRO ; PANASONIC CORP ; PANASONIC IP CORP AMERICA

Assignee(s): PANASONIC INTELLECTUAL PROPERTY OF AMERICA CORP ; MATSUSHITA ELECTRIC INDUSTRIAL CO LTD ; INTERDIGITAL PATENT HOLDINGS INC ; MATSUSHITA ELECTRIC INDUSTRIAL CO ; MATSUSHITA ELECTRIC IND CO ; MATSUSHITA ELECTRIC INDUSTRIAL CO LTD

Inventor(s): (std): MATSUOKA AKIHIKO ; MURAKAMI YUTAKA ; ORIHASHI MASAYUKI ; TAKABAYASHI SHINICHIRO ; YUTAKA MURAKAMI ; SHINICHIRO TAKABAYASHI ; MASAYUKI ORIHASHI ; AKIHIKO MATSUOKA

Agent(s): GREENBLUM AND BERNSTEIN PLC; ALLEN DYER DOPPELT MILBRATH AND GILCHRIST P A; ALLEN DYER DOPPELT MILBRATH AND GILCHRIST PA

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 GM GN GQ GR GW HR HU ID IE IL IN IS IT KE KG KP KR KZ LC 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 SD SE

SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Title: SYSTEM, APPARATUS, AND METHOD FOR RADIO COMMUNICATION USING A PLURALITY OF CARRIERS

Abstract: Source: US2003236071A A communication apparatus includes a correction value calculator for calculating a correction value for a received signal, a status determiner for determining a reception status relating to a reception of a plurality of carriers based on the correction value of the correction value calculator, a determination information inserter for inserting determination information in a transmission signal based on the determination of the status determiner, a transmission mode selector for selecting a transmission mode based on the determination information inserted in a transmission signal, a transmission mode information inserter for inserting, into a transmission signal, information relating to the transmission mode selected by the transmission mode selector, and a transmission mode determiner for determining the transmission mode based on the transmission mode information inserted in the transmission signal. Quality of communication is maintained without reducing a transmission rate by using a usable carrier only.

Classifications:

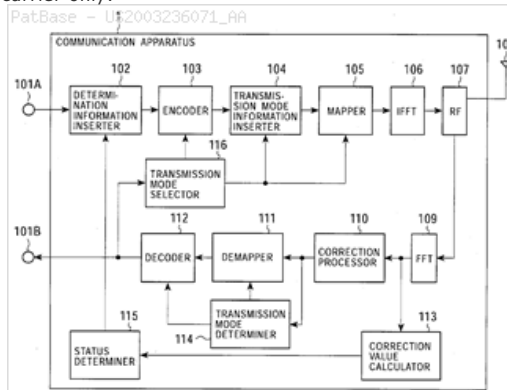
International (IPC 8-9): H04B7/26 H04J11/00 H04L1/00 H04L1/16 H04L1/20 H04L27/26 H04Q7/00 (Advanced/Invention); H04L1/18 (Advanced/Non-invention); H04B7/26 H04J11/00 H04L1/00 H04L1/16 H04L1/20 H04L27/26 (Core/Invention)

International (IPC 1-7): H04B7/00 H04B7/26 H04J11/00 H04L1/00

CPC: H04L1/0025 H04L1/0003 H04L1/0009 H04L1/0015 H04L1/0026 H04L1/1671 H04L1/1803 H04L1/206 H04L5/0007 H04L5/0046 H04L5/006 H04L5/0094

European: H04L1/00A1M H04L1/00A5 H04L1/00A8 H04L1/00A9A H04L1/00A9B H04L1/16F15 H04L1/20M H04L5/00C4A T04L1/00A1M T04L1/00A5 T04L1/18A T04L5/00A2A1 T04L5/00C7A T04L5/00E2

US: 370/329 455/59 455/59P 455/67.11 455/67.110S



Family:

Publication number	Publication date	Application number	Application date
JP2003309538 A2	20031031	JP20020115170	20020417
JP3882665 B2	20070221	JP20020115170	20020417
US2003236071 AA	20031225	US20030414671	20030416
US7468961 BB	20081223	US20030414671	20030416

Priority:

JP20020115170 20020417

Probable Assignee: SONY CORP

Assignee(s): (std): ITO OSAMU ; SONY CORP

Inventor(s): (std): ITO OSAMU ; ITO YASU

Agent(s): FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP

Title: BUTTON APPARATUS

Abstract: Source: US2004067763A The button apparatus is an apparatus provided for, for example, a vending machine and to be touched and pressed with the body of a user who wants to purchase a commodity from the vending machine. By pressing down the button apparatus, the user can purchase a required commodity from the vending machine. The button apparatus has a conductive pusher, an insulator, a switch, and a transceiver. A user wearing a wearable computer and a user's transceiver touches and presses down the pusher, to separately establish communication between the transceiver and the user's transceiver through the conductive pusher and the body of the user, as well as communication of providing a press signal.

Classifications:

International (IPC 8-9): G01B9/02 G01J1/04 G01J11/00 G02F2/00 G05B19/00 G06F3/02 G06F3/023 G06G1/12 G06Q20/00 G06Q20/20 G06Q20/36 G07F5/22 G07F7/02 G07F7/08 G07F9/00 G07F9/02 G08C25/02 H01Q17/00 H04B10/04 H04B10/06 H04B10/07 H04B10/08 H04B10/14 H04B10/26 H04B10/28 H04B10/40 H04B10/50 H04B10/508 H04B10/58 H04B10/60 H04B13/00 H04B7/04 H04B7/06 H04B7/216 H04B7/26 H04J1/00 H04J11/00 H04J14/08 H04J15/00 H04J3/04 H04J3/16 H04J3/17 H04J3/22 H04J3/24 H04J99/00 H04K1/00 H04L1/00 H04L1/06 H04L1/16 H04L1/18 H04L12/28 H04L12/413 H04L12/43 H04L12/56 H04L12/891 H04L12/951 H04L27/26 H04L29/00 H04L29/02 H04L29/06 H04L29/08 H04L5/14 H04M1/66 H04Q7/00 H04W16/02 H04W16/10 H04W16/28 H04W28/00 H04W28/02 H04W28/04 H04W28/06 H04W4/00 H04W72/04 H04W72/08 H04W72/12 H04W74/08 H04W84/12 (Advanced/Invention); H04B7/02 H04J15/00 H04L1/06 H04L12/56 H04W28/04 H04W28/06 H04W28/14 H04W72/00 H04W72/12 H04W74/00 H04W74/08 (Advanced/Non-invention); G01B9/02 G01J1/04 G01J11/00 G02F2/00 G05B19/00 G06F3/02 G06F3/023 G06G1/00 G06Q20/00 G07F5/20 G07F7/00 G07F7/08 G07F9/00 G07F9/02 H01Q17/00 H04B10/04 H04B10/06 H04B10/08 H04B10/14 H04B10/26 H04B10/28 H04B13/00 H04B7/04 H04B7/26 H04J14/08 H04J3/17 H04J3/24 H04J99/00 H04K1/00 H04L1/00 H04L1/02 H04L1/16 H04L12/28 H04L12/56 H04L27/26 H04L29/00 H04L29/06 H04L5/14 H04M1/66 H04W74/00 (Core/Invention); H04B7/02 H04W28/02 (Core/Non-invention)

International (IPC 1-7): G01J1/04 G01J11/00 G02F2/00 G06F3/02 G06F3/023 G07F5/22 G07F7/02 G07F9/00 H04B10/00 H04B10/04 H04B10/06 H04B10/08 H04B10/14 H04B10/26 H04B10/28 H04B13/00 H04B7/00 H04B7/26 H04J1/00 H04J14/08 H04J15/00 H04L1/00 H04L1/18 H04L12/56 H04L29/00 H04Q7/00

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European: G01J5/08B1 G01J5/08B17 G06F17/60B4 G06Q20/20 G06Q20/202 G06Q20/367 G07F19/00C G07F9/02 H04B10/079 H04B7/04 H04B7/04M H04L1/06 H04L1/16F17 H04L1/16F17 H04L1/16F5 H04L1/18T11 H04L1/18T7 H04L27/26M H04L5/14P H04W12/02H H04W28/06 H04W28/06 H04W74/08B T04B7/02 T04L1/00T7 T04W12/02E T04W228/04 T04W274/00 T04W28/04 T04W36/08 T04W72/12D T04W74/00 T04W74/08B

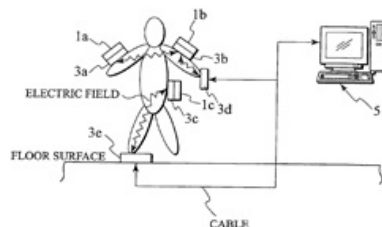
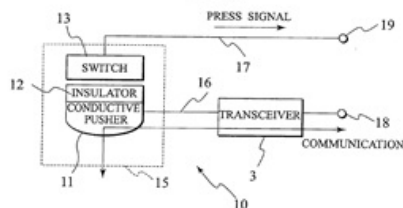
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Family:

Publication number	Publication date	Application number	Application date
CA2513343 AA	20050713	CA20042513343	20040618
CA2513343 C	20100914	CA20042513343	20040618
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CN101478382 A	20090708	CN200810181094	20040618
CN1304923 C	20070314	CN200310100095	20031008
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CN1497417 A	20040519	CN200310100095	20031008
CN1751465 A	20060322	CN200480004224	20040618
CN1751465 B	20111109	CN200480004224	20040618

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FIG. 1
PRIOR ART**FIG. 2**

CN1751480 A	20060322	CN200480004217	20040618
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CA20042518590	20040618	CA20102518590	20100526	CN200310100098	20031008
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Probable Assignee: NIPPON TELEGRAPH AND TELEPHONE CORP

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Inventor(s): AIKAWA SATORUJP ; OCHIAI KATSUYUKI SHINAGAWA MITSURU TOGO HIROYOSHI ; OHTA ATSUSHIJP ; NAGATA KENGOJP ; NAGATA KENGO KUMAGAI TOMOAKI OTSUKI SHINYA SAITO KAZUYOSHI AIKAWA SATORU OHTA ATSUSHI HIRUKAWA AKINORI ; KUMAGAI TOMOAKIJP ; HIRUKAWA AKINORIJP ; OTSUKI SHINYAJP ; OTSUKI SHINYA C O NTT INTEL PROP CENTER ; OTSUKI SHINYA C O NTT INTEL PROP CENTER MUSASHINO SHI ; SAITO KAZUYOSHIJP ; SAITO KAZUYOSHI C O NTT INTEL PROP CENTER ; SAITO KAZUYOSHI C O NTT INTEL PROP CENTER MUSASHINO SHI ; SAITO KAZUYOSHI KUMAGAI TOMOAKI OTSUKI SHINYA ; SAITO KAZUYOSHI KUMAGAI TOMOAKI OTSUKI SHINYA NAGA ; SAITO KAZUYOSHI KUMAGAI TOMOAKI OTSUKI SHINYA NAGATA KENGO AIKAWA SATORU OHTA ATSUSHI HIRUKAWA AKINORI ; OHTA ATSUSHI C O NTT INTEL PROP CENTER ; OHTA ATSUSHI C O NTT INTEL PROP CENTER MUSASHINO SHI ; NAGATA KENGO C O NTT INTEL PROP CENTER ; NAGATA KENGO C O NTT INTEL PROP CENTER MUSASHINO SHI ; NAGATA KENGO KUMAGAI TOMOAKI OTSUKI SHINYA ; NAGATA KENGO KUMAGAI TOMOAKI OTSUKI SHINYA SAITO K ; NAGATA KENGO KUMAGAI TOMOAKI OTSUKI SHINYA SAITO KAZUYOSHI AIKAWA SATORU OHTA ATSUSHI HIRUKAWA AKINORI INOUE YASUHIKO ; KUMAGAI TOMOAKI C O NTT INTEL PROP CENTER ; KUMAGAI TOMOAKI C O NTT INTEL PROP CENTER MUSASHINO SHI ; ITO FUMIHIKO MUSASHINO SHI ; AIKAWA SATORU C O NTT INTEL PROP CENTER ; AIKAWA SATORU C O NTT INTEL PROP CENTER MUSASHINO SHI ; HIRUKAWA AKINORI C O NTT INTEL PROP CENTER ; HIRUKAWA AKINORI C O NTT INTEL PROP CENTER MUSASHINO SHI

Agent(s): OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; HOFFMANN EITLE PATENT U RECHTSANWAELTE PARTMBB; HOFFMANN EITLE; FURUYA FUMIO; HARNESS DICKEY AND PIERCE PLC; KILPATRICK STOCKTON LLP

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

Title: ILLUMINATIVE LIGHT COMMUNICATION DEVICE

Abstract: Source: US2006056855A The present invention has been developed considering the above-described problems and aims to provide various structures and applications for illuminative light communication. According to the first aspect of the present invention, a broadcast system includes an LED light source 115 for lighting, a power line 103 that supplies electric power to the LED light source 115, a data modulator 102 that modulates and **multiplexes** a plurality of pieces of data, superimposes the resulting signal on an electric power waveform, and then transmits the resulting superimposed signal waveform to the power line 103, and a filter 112 that selectively separates one or more of a plurality of pieces of modulated data on the power line so as to control light intensity or blinking of the LED light source. Data is transmitted through changes in light intensity or blinking of the LED light source.

Classifications:

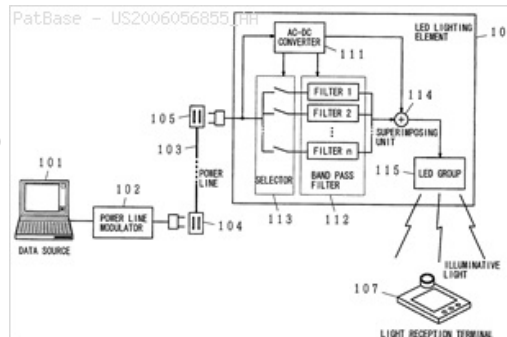
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European: G09F9/33 H04B10/1141 H04B10/1149 H04B10/116 H04B3/54 H05B37/02B6P H05B37/02B6R R21K9/00 R21Y101/02 T01L25/075N T04B203/54M4 T04B203/54P14 Y02B20/72

US: 362/157 362/157S 398/130 398/130P 398/172 398/172P 398/182 398/182P 398/182S 398/183 398/183P



Family:

Publication number	Publication date	Application number	Application date
AT372614 E	20070915	AT20030758809T	20031023
AU2003275606 AA	20040513	AU20030275606	20031023
CN100563130 C	20091125	CN200380104093	20031023
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Priority:

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Assignee(s): GLOBAL COM CO ; ICHIMARU CO LTD ; GLOBAL COM INC ; NAKAGAWA LABORATORIES INC

Inventor(s): (std): HARUYAMA SHINICHIRO ; HARUYAMA SHINICHIRO ; ISHIGURE T ; ISHIGURE TAKAAKI ; KITANO SHOGO ; KOIKE YASUHIRO ; KOMINE TOSHIHIKO ; MASAO NAKAGAWA ; NAKAGAWA MASAO ; SHINICHIRO HARUYAMA ; SHOGO KITANO ; SU NAKAGAWA MASAO KOMINE TOSHI ; SUGAWARA Y ; SUGAWARA YASUO ; TAKAAKI ISHIGURE ; TOSHIHIKO KOMINE ; YASUHIRO KOIKE ; YASUO SUGAWARA ; SUGAWARA ; NAKAGAWA MASAO KOMINE TOSHIHIKO HARUYAMA SHINICHIRO

Inventor(s): NAKAGAWA MASAO KOMINE TOSHIHIKO HARUYAMA SHINICHIRO ISHIGURE TAKAAKI KOIKE YASUHIRO KITANO SHOGO SUGAWARA YASUO ; NAKAGAWA MASAO KOMINE TOSHIHIKO HARUYAMA

Agent(s): KLEIN PETER; RADER FISHMAN AND GRAUER PLLC

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 EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT 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 NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: COMMUNICATION SYSTEM, COMMUNICATION METHOD, TRANSMISSION DEVICE, RECEPTION DEVICE, AND CONTROL PROGRAM

Abstract: Source: US2006031583A An object of the present invention is to provide a communications system etc., which can reduce the influence of interference from other systems which results from a difference in symbol length, in an area where a plurality of systems using different transmission methods are mixed. The present invention relates to a communications system in which a plurality of systems share the same frequency bandwidth so as to transmit information symbols. One of the plurality of systems 1 includes an identifying unit 109 configured to identify the symbol length of an information symbol transmitted in a different system 2; and an adjusting unit 102, 107 configured to adjust the symbol length of an information symbol to be transmitted, in accordance with an identified symbol length.

Classifications:

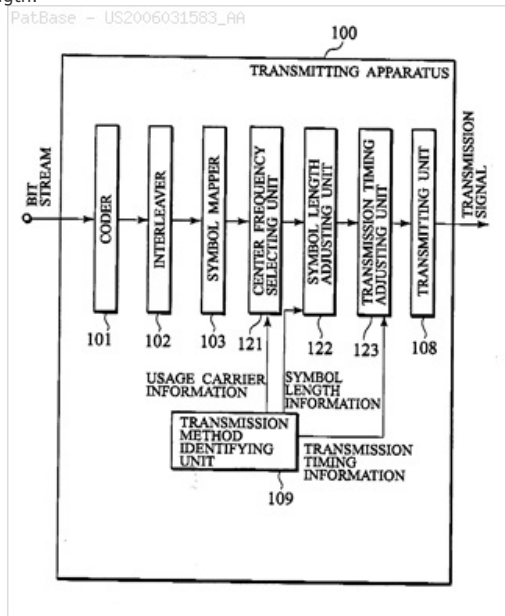
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International (ipc 1-7): H04J11/00

CPC: H04B1/7103 H04L27/2602 H04L27/2607 H04L27/2608 H04L27/261 H04L27/2613 H04L27/2626 H04L27/2656 H04L27/2662 H04L27/2688

European: H04L25/02J H04L27/26M1 H04L27/26M3 H04L27/26M5C1 H04L27/26M5C5 H04L27/26M5C9C5 T04B1/707F2 T04B1/7103 T04L27/26M1G1 T04L27/26M1P T04L27/26M1R T04L27/26M1R3

US: 370/328 370/343 709/246 709/246P



Family:

Publication number	Publication date	Application number	Application date
CN1714525 A	20051228	CN200380103669	20031120
CN1714525 B	20110420	CN200380103669	20031120
DE60333117 D1	20100805	DE20036033117	20031120
EP1566907 A1	20050824	EP20030774092	20031120
EP1566907 A4	20081022	EP20030774092	20031120
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JP2004047348 A1	20060323	JP20040553220T	20031120
JP4009641 B1	20071121	JP20040553220T	20031120
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US2006031583 AA	20060209	US20050535859	20050520
US7633924 BB	20091215	US20050535859	20050520
WO04047348 A1	20040603	WO2003JP14824	20031120

Priority:

JP20020337139 20021120 WO2003JP14824 20031120

Probable Assignee: NTT DOCOMO INC

Assignee(s): (std): NTT DOCOMO INC ; SUDA HIROHITO ; TOMISATO SHIGERU ; YAMADA TAKEFUMI ; ABE TETSUSHI ; FUJII HIROMASA

Assignee(s): N A

Inventor(s): (std): TOMISATO SHIGERU ; TETSUSHI ABE ; TAKEFUMI YAMADA ; TAKEFUMI FUJII HIROMASA TOMISA ; SUDA HIROHITO ; SHIGERU TOMISATO ; HIROMASA FUJII ; HIROHITO SUDA ; YAMADA TAKEFUMI ; FUJII HIROMASA ; ABE TETSUSHI ; ABE TETSUHI

Inventor(s): ABE TETSUSHI NTT DOCOMO INC ; TOMISATO SHIGERU NTT DOCOMO INC ; FUJII HIROMASA TOMISATO SHIGERU SUDA HIROHITO ABET ; FUJII HIROMASA NTT DOCOMO INC ; SUDA HIROHITO NTT DOCOMO INC ; FUJII HIROMASA TOMISATO SHIGERU SUDA HIROHITO ; FUJII HIROMASA TOMISATO SHIGERU SUDA HIROHITO ABET TETSUSHI YAMADA TAKEFUMI ; YAMADA TAKEFUMI NTT DOCOMO INC

Agent(s): HOFFMANN EITL; MIYOSHI HIDEKAZU; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP

Designated states: CN DE GB JP US

Title: RADIO COMMUNICATION APPARATUS AND RADIO COMMUNICATION METHOD

Abstract: Source: US2006089102A A CIR measuring section 307 measures CIRs of all blocks received and a block selection section 308 makes a threshold decision based on the CIR measurement result and threshold information according to an amount of traffic in the own cell and neighboring cells. As a result of the threshold decision, blocks whose CIRs exceed the threshold are regarded as usable blocks. A CIR averaging section 309 averages the CIRs of the usable blocks and a CQI generation section 310 generates a CQI based on the CIR average value. The CQI generated and selected block numbers are reported to a base station apparatus. This allows the throughput of the own cell and neighboring cells to be improved.

Classifications:

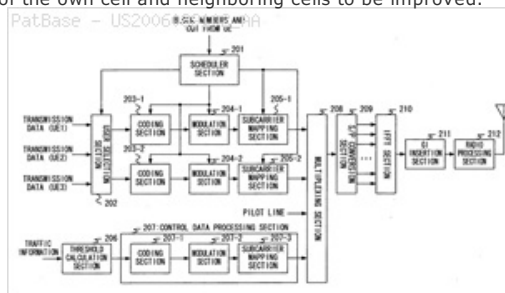
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International (IPC 1-7): H04B7/26 H04J11/00 H04Q7/36

CPC: H04W24/10 H04L1/0003 H04L1/0021 H04L1/0026 H04L1/20 H04L5/0007 H04L5/006 H04L5/0094

European: H04L1/00A1M H04L1/00A8S5 H04L1/00A9B H04L1/20 H04L5/00C7A H04L5/00E2 T04L5/00A2A1 T04W24/10

US: 370/252 370/329 370/330 370/331 370/332 455/452.1 455/452.2 455/453 455/67.11 455/67.110P 455/67.7 455/67.700P

**Family:**

Publication number	Publication date	Application number	Application date
AU2003284586 AA	20040729	AU20030284586	20031120
CN101777959 A	20100714	CN201010126252	20031120
CN101777959 B	20120523	CN201010126252	20031120
CN1732642 A	20060208	CN200380107347	20031120
CN1732642 B	20100505	CN200380107347	20031120
DE60343895 D1	20130627	DE20036043895	20031120
EP1578043 A1	20050921	EP20030774072	20031120
EP1578043 A4	20120104	EP20030774072	20031120
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EP2533444 A1	20121212	EP20120183168	20031120
EP2533444 B1	20170104	EP20120183168	20031120
EP2533445 A1	20121212	EP20120183169	20031120
EP2533445 B1	20170104	EP20120183169	20031120
EP3182623 A1	20170621	EP20170150144	20031120
ES2620768 T3	20170629	ES20120183168T	20031120
ES2620769 T3	20170629	ES20120183169T	20031120
IN01360CN2005 A	20070413	IN2005CN01360	20050622
IN215404 B	20080331	IN2005CN01360	20050622
JP2004208234 A2	20040722	JP20020378076	20021226
JP2008125101 A2	20080529	JP20070318449	20071210
JP4256158 B2	20090422	JP20020378076	20021226
JP4734314 B2	20110727	JP20070318449	20071210
KR100708291 B1	20070416	KR20057009489	20031120
KR20050086855 A	20050830	KR20057009489	20031120
US2006089102 AA	20060427	US20050540401	20050623
US2009104877 AA	20090423	US20080341306	20081222
US2013121202 AA	20130516	US20130733744	20130103
US8254335 BB	20120828	US20050540401	20050623
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WO04062148 A1	20040722	WO2003JP14778	20031120

Priority:

EP20030774072	20031120	EP20030774072	20031120	EP20120183168	20031120
JP20070318449	20071210	US20050540401	20050623	US20080341306	20081222
JP20020378076	20021226	US20130733744	20130103	EP20120183168	20120905
WO2003JP14778	20031120	WO2003JP14778	20050526		

Probable Assignee: MATSUSHITA ELECTRIC INDUSTRIAL CO LTD

Assignee(s): (std): HIRAMATSU KATSUHIKO ; MATSUSHITA ELECTRIC IND CO LTD ; NISHIO AKIHIKO ; PANASONIC CORP ; PANASONIC ELECTRIC IND CO LTD ; OPTIS WIRELESS TECHNOLOGY LLC ; OPTIS WIRELESS TECH LLC

Assignee(s): HIGHBRIDGE PRINCIPAL STRATEGIES LLC COLLATERAL AGENT AS ; WILMINGTON TRUST NATIONAL ASSOCIATION ; OPTIS WIRELESS TECHNOLOGY LLC N D GES D STAATES DELAWARE PLANO ; PANASONIC ELECTRIC INDUSTRIAL CO LTD ; PANASONIC ELECTRIC INDUSTRIAL CO ; MATSUSHITA ELECTRIC INDUSTRIAL CO ; MATSUSHITA ELECTRIC INDUSTRIAL CO LTD ; MATSUSHITA ELECTRIC IND CO

Inventor(s): (std): KATSUHIKO NISHIO AKIHIKO HIRAM ; NISHIO AKIHIKO ; HIRAMATSU KATSUHIKO ; KATSUHIKO HIRAMATSU ; AKIHIKO NISHIO

Inventor(s): HIRAMATSU KATSUHIKO YOKOSUKA SHI ; NISHIO AKIHIKO HIRAMATSU KATSUHIKO ; NISHIO AKIHIKO YOKOSUKA SHI

Agent(s): GRUENECKER PATENT U RECHTSANWALTE PARTG MBB ; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAUESSER ; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAUESSER ; MILTENYI PETER ; STEVENS DAVIS MILLER AND MOSHER LLP ; DICKINSON WRIGHT PLLC JAMES E LEDBETTER ESQ ; SEED IP LAW GROUP PLLC

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 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 NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA

Title: INFORMATION TRANSMITTING METHOD, ELECTRONIC APPARATUS, AND WIRELESS COMMUNICATION TERMINAL

Abstract: Source: US2005162338A An electronic apparatus is provided including a wireless communication unit transmitting first category information and a wire communication unit transmitting second category information, and the first and second category information items are transmitted in parallel by the wireless communication unit and the wire communication unit.

Classifications:

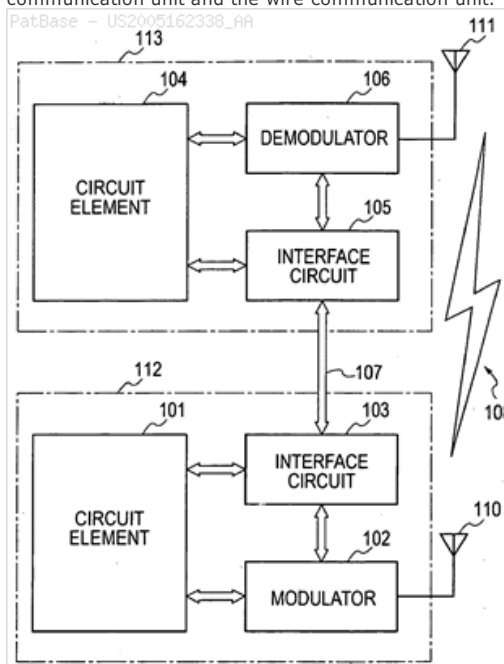
International (ipc 8-9): G09G3/20 G09G5/00 H04B1/03 H04B1/3822 H04B1/40 H04B1/69 H04B1/707 H04B1/7183 H04B7/00 H04B7/24 H04B7/26 H04J13/00 H04L25/02 H04L5/20 H04L7/04 H04L9/08 H04M1/00 H04M1/02 H04M1/72 H04M1/725 H04N5/225 H04N5/228 H04W84/10 H04W88/00 H04W88/02 (Advanced/Invention); G09G3/20 G09G5/00 H04B1/40 H04M1/02 H04M1/725 (Advanced/Non-invention); G09G3/20 G09G5/00 H04B1/40 H04B1/69 H04B1/707 H04B7/00 H04B7/24 H04B7/26 H04J13/00 H04L25/02 H04L7/04 H04L9/08 H04M1/00 H04M1/02 H04M1/72 H04N5/225 H04N5/228 (Core/Invention); H04M1/02 (Core/Non-invention)

International (ipc 1-7): G09G5/00 H04B1/03 H04B1/69 H04B1/707 H04J13/00 H04L25/02 H04L5/20 H04L7/04 H04L9/08 H04M1/00 H04M1/02 H04M1/725

CPC: G09G5/006 H04M1/0206

European: G09G3/20M G09G5/00T4 T04M1/02A2

US: 345/2.1 348/207.99 348/207.990S 348/723 348/723S 348/E5.031 348/E50.31S 375/130 375/130S 455/39 455/39S 455/41.3 455/41.300P



Family:

Publication number	Publication date	Application number	Application date
CN100553165 C	20091021	CN200580003069	20050126
CN1910829 A	20070207	CN200580003069	20050126
EP1715595 A1	20061025	EP20050704347	20050126
JP2005210611 A2	20050804	JP20040017259	20040126
JP2005217799 A2	20050811	JP20040022265	20040129
JP2005223411 A2	20050818	JP20040026732	20040203
JP2006067164 A2	20060309	JP20040246359	20040826
JP2006295951 A2	20061026	JP20060133674	20060512
JP3711457 B2	20051102	JP20040026732	20040203
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JP3755530 B2	20060315	JP20040022265	20040129
JP3952022 B2	20070801	JP20040017259	20040126
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KR100854216 B1	20080825	KR20067015114	20050126
KR20060107573 A	20061013	KR20067015114	20050126
KR20080017329 A	20080226	KR20077027638	20071127
TW200534655 A	20051016	TW20050102178	20050125
US2005162338 AA	20050728	US20050042992	20050125
US2009270037 AA	20091029	US20090499449	20090708
WO05071858 A1	20050804	WO2005JP01449	20050126

Priority:

JP20040017259	20040126	JP20040022265	20040129	US20050042992	20050125
JP20040246359	20040826	JP20060133674	20060512	JP20040026732	20040203
WO2005JP01449	20050126	US20090499449	20090708	WO2005JP01449	20060726

Probable Assignee: SEIKO EPSON CORP

Assignee(s): (std): IIDA IZUMI ; IKEDA MASAYUKI ; INOUCHI MAKOTO ; SEIKO EPSON CORP

Inventor(s): (std): IIDA IZUMI ; IKEDA KATSUYUKI ; IKEDA MASAYUKI ; INOUCHI MAKOTO ; IZUMI IIDA ; MAKOTO INOUCHI ; MASAYUKI IKEDA ; MAKOTO IKEDA MASAYUKI IIDA IZU

Inventor(s): IKEDA MASAYUKI IIDA IZUMI INOUCHI MAKOTO

Agent(s): HARNESS DICKEY AND PIERCE PLC

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 KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: WIRELESS COMMUNICATION SYSTEM

Abstract: Source: US2006128309A A wireless communication system is disclosed including a MIMO wireless communication apparatus that can communicate through multiple antennas and a non-MIMO wireless communication apparatus that can communicate through a single antenna or multiple antennas. The MIMO wireless communication apparatus includes a communication unit configured to transmit and receive control information divided into a second control information containing information related to the demodulation and decoding of traffic channel and a first control information containing information related to the MIMO separation of the second control information.

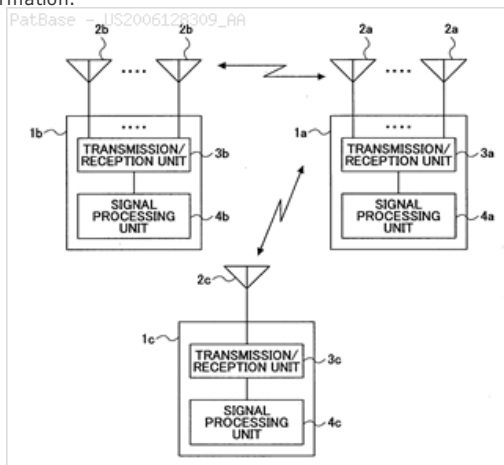
Classifications:

International (IPC 8-9): H03C1/62 H04B1/707 H04B7/00 H04B7/04 H04B7/06 H04B7/26 H04J11/00 H04J15/00 H04J99/00 H04K1/10 H04L1/00 H04L1/18 H04L27/28 H04L27/34 H04L5/00 H04M1/00 H04Q7/38 H04W4/00 H04W72/04 H04W76/02 (Advanced/Invention); H04L1/00 (Advanced/Non-invention); H04B7/00 H04B7/04 H04B7/26 H04J15/00 H04L1/00 H04L1/16 H04M1/00 H04Q7/38 (Core/Invention)

CPC: H04B7/0697 H04L1/0025 H04L1/0026 H04L1/1812 H04L27/34 H04L1/0003 H04W72/042 H04B7/0613 H04B7/0413 H04L5/003

European: H04B7/06C H04B7/06M H04L1/18D T04L1/00A1M T04L1/00A9A T04L1/00A9B

US: 1/1 370/260 370/328 370/329 370/332 370/334 370/335 370/336 370/344 370/450 375/260 375/260P 455/115.1 455/115.2 455/41.3 455/41.300P 455/424 455/504 455/517 455/522 455/550.1 455/562.1



Family:

Publication number	Publication date	Application number	Application date
CN100593290 C	20100303	CN200510065161	20050411
CN101588199 A	20091125	CN200910139289	20050411
CN1790945 A	20060621	CN200510065161	20050411
EP1672818 A1	20060621	EP20050251676	20050318
EP1672818 B1	20171004	EP20050251676	20050318
JP2006173834 A2	20060629	JP20040360878	20041214
JP2010283858 A2	20101216	JP20100167058	20100726
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US2011243265 A2	20111006	US20110160960	20110615
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US2015264673 AA	20150917	US20150728465	20150602
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Priority:

JP20040360878 20041214	JP20100167058 20100726	US20050090592 20050328
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US20150728465 20150602	US20150729297 20150603	

Probable Assignee: FUJITSU LTD

Assignee(s): (std): DATEKI TAKASHI ; FUJITSU LTD ; YANO TETSUYA

Assignee(s): FUJITSU LIMITED ; FUJITSU LIMITED

Inventor(s): (std): TAKASHI DATEKI ; TETSUYA DATEKI TAKASHI YANO ; TETSUYA YANO ; YANO TETSUYA ; DATEKI TAKASHI

Inventor(s): DATEKI TAKASHI C O FUJITSU LTD ; DATEKI TAKASHI YANO TETSUYA ; YANO TETSUYA C O FUJITSU LTD

Agent(s): STEBBING TIMOTHY CHARLES; DOI KENJI; HAYASHI TSUNENORI; SWIDLER BERLIN LLP; MURPHY AND KING PC; SMITH GAMBRELL AND RUSSELL LLP

Designated states: DE FR GB IT

Title: MOBILE COMMUNICATION SYSTEM, MOBILE STATION APPARATUS, BASE STATION APPARATUS, MOBILE COMMUNICATION METHOD, PROGRAM AND RECORDING MEDIUM

Abstract: Source: US2010284326A A mobile communication system that is a wireless communication system using the AMC scheme and does not require any transmission/reception of control signals between a base station apparatus and a mobile station apparatus during controlling of the transmission/reception of the mobile station apparatus. In this mobile communication system, the mobile station apparatus measures reception quality of a downlink signal transmitted by the base station apparatus, and uses an uplink control channel to transmit, to the base station apparatus, downlink signal quality information (CQI) corresponding to the measured reception quality. The base station apparatus receives the downlink signal quality information CQI to control the data transmission to the mobile station apparatus. The base station apparatus judges whether the downlink signal quality information CQI transmitted by the mobile station apparatus is present, and controls, based on the result of this judgment, the downlink signal to be transmitted to the mobile station apparatus.

Classifications:

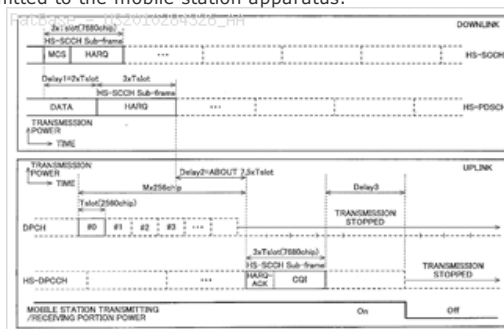
International (IPC 8-9): H04L1/00 H04Q7/38 H04W4/00 H04W40/00 H04W52/02 H04W72/04 H04W72/08 H04W88/02

H04W92/10 (Advanced/Invention);
H04L1/00 H04Q7/38 (Core/Invention)

CPC: H04L1/0003 H04L1/0026 H04L1/0033 H04L1/1671 H04L1/1812 H04L1/1887 H04L2001/0093

European: H04L1/00A13 H04L1/00A9B H04L1/18T7 T04L1/00A1M T04L1/00T1 T04L1/16F15 T04L1/18D

US: 370/328 370/328P



Family:

Publication number	Publication date	Application number	Application date
CN101273657 A	20080924	CN200680035688	20060725
CN101273657 B	20120530	CN200680035688	20060725
EP1916859 A1	20080430	EP20060781589	20060725
EP1916859 A4	20110622	EP20060781589	20060725
JP2007013457 A1	20090326	JP20070528478T	20060725
JP4628424 B1	20110209	JP20070528478T	20060725
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US2010284326 AA	20101111	US20060996738	20060725
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WO07013457 A1	20070201	WO2006JP314677	20060725

Priority:

JP20050217296 20050727 WO2006JP14677 20060725 WO2006JP314677 20060725

Probable Assignee: SNAPTRACK INC

Assignee(s): (std): OH WAHOH ; SHARP CORP ; SHARP KK

Assignee(s): SNAPTRACK INC ; HUAWEI TECHNOLOGIES CO LTD ; SHARP K K ; SHARP KABUSHIKI KAISHA

Inventor(s): (std): OH WAHOH ; WAHOH OH

Agent(s): MUELLER - HOFFMANN AND PARTNER; OKADA HIROYUKI; TAKANO AKICHIKA; BIRCH STEWART KOLASCH AND BIRCH; BIRCH STEWART KOLASCH AND BIRCH LLP

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 KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX 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 SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

KENICHI TOKYO ; KAWAMURA TERUO CHIYODA KU ; KAWAMURA TERUO TOKYO

Agent(s):

SPRUSON AND FERGUSON; OYEN WIGGS GREEN AND MUTALA LLP; HOFFMANN EITLE PATENT U
RECHTSANWAELTE PARTMBB; HOFFMANN EITLE; CARVAJAL Y ISABEL; AXIS INTELLECTUAL CAPITAL
PTE LTD; OSHA LIANG LLP

Designated states:

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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

Title: BASE STATION DEVICE AND RADIO COMMUNICATION DEVICE

Abstract: Source: US2010075693A Provided is a base station device capable of suppressing power consumption of a radio communication device and transmitting a pilot signal for measuring an uplink channel quality in a high frequency use efficiency. The base station device (2) includes: a resource block size decision unit (54) which decides the number of subcarriers to be allocated for the radio communication device (1); and a cyclic shift delay amount decision unit (55) which sets a cyclic shift delay amount used when performing cyclic shift delay diversity transmission according to the number of subcarriers decided by the resource block size decision unit (54). By using the cyclic shift delay amount set by the cyclic shift delay amount decision unit (55), the radio communication device (1) cyclic shift delay diversity transmission of the channel quality measuring signal.

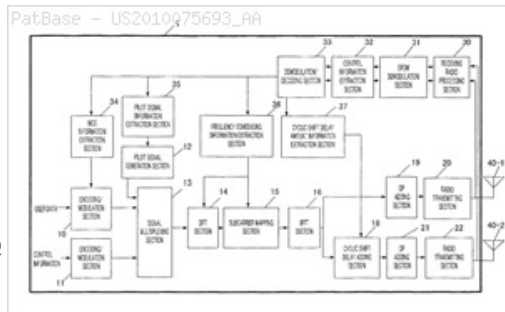
Classifications:

International (IPC 8-9): H04B7/02 H04B7/06 H04B7/26 H04J1/00 H04J11/00 H04Q7/36 H04W16/28 H04W64/00 H04W72/08 (Advanced/Invention); H04J1/00 (Advanced/Non-invention); H04B7/02 H04B7/04 H04B7/26 H04J1/00 H04J11/00 H04Q7/36 H04W72/00 (Core/Invention); H04J1/00 (Core/Non-invention)

CPC: H04L5/023 H04L27/2608 H04W72/085 H04B7/0671 H04L5/0007 H04L5/0044 H04L5/006 H04L27/2607

European: H04B7/06C2D H04L27/26M1G1 H04L5/00C4

US: 370/210 370/252 370/328 370/345 370/470 375/260 375/261 375/267 375/299 455/101 455/404.1 455/422.1 455/452.2 455/452.200P 455/522

**Family:**

Publication number	Publication date	Application number	Application date
CN101569121 A	20091028	CN200880001273	20080107
CN101569121 B	20130731	CN200880001273	20080107
JP2008193666 A2	20080821	JP20080000209	20080104
JP2013013122 A2	20130117	JP20120182250	20120821
JP5106129 B2	20121226	JP20080000209	20080104
JP5463393 B2	20140409	JP20120182250	20120821
US2010075693 AA	20100325	US20080522694	20080107
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WO08084777 A1	20080717	WO2008JP50044	20080107

Priority:

JP20070002856 20070110 JP20080000209 20080104 WO2008JP50044 20080107
JP20120182250 20120821

Probable Assignee: PANASONIC CORP

Assignee(s): (std): KISHIGAMI TAKAAKI ; MATSUSHITA ELECTRIC IND CO LTD ; OKAMURA SHUTAI ; PANASONIC CORP

Assignee(s): PANASONIC INTELLECTUAL PROPERTY OF AMERICA CORP ; MATSUSHITA ELECTRIC INDUSTRIAL CO ; MATSUSHITA ELECTRIC INDUSTRIAL CO LTD

Inventor(s): (std): KISHIGAMI TAKAAKI ; OKAMURA SHUTA ; OKAMURA SHUTAI ; SHUTAI OKAMURA ; TAKAAKI KISHIGAMI

Agent(s): DICKINSON WRIGHT PLLC JAMES E LEDBETTER ESQ; DICKINSON WRIGHT PLLC; WASHIDA KIMIHIITO

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 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 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

Title: USER APPARATUS, BASE STATION APPARATUS, AND METHOD IN MOBILE COMMUNICATION SYSTEM

Abstract: Source: US2010103891A A user apparatus transmits an uplink control signal to a base station apparatus using a single carrier scheme. The user apparatus includes: a unit configured to prepare acknowledgement information indicating positive acknowledgement or negative acknowledgement for a downlink data signal based on a result of demodulation of the downlink data signal; a unit configured to prepare channel state information indicating reception quality of a downlink reference signal; a unit configured to channel-code **multiplexed** control information in which the acknowledgement information and the channel state information are **multiplexed** to prepare the uplink control signal; and a unit configured to transmit the uplink control signal using dedicated resources different from resources for an uplink data signal.

Classifications:

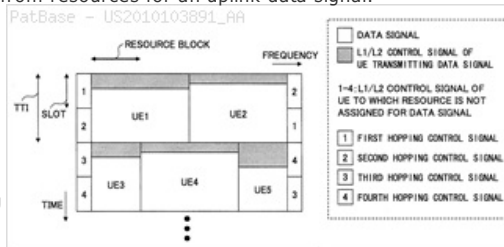
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International (IPC 1-7): H04B7/26 H04Q7/38

CPC: H04W24/02 H04W28/04 H04W48/14 H04L1/0013 H04L1/0026 H04L1/0068 H04L1/007 H04L1/0073 H04L1/1671 H04L5/0053

European: H04L1/00A5R H04L1/00A9B H04L1/00B7R1 H04L1/00B7U H04L1/00B8F H04L1/16F15 H04L5/00C6 T04W28/04

US: 1/1 370/329 370/329P



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Publication number	Publication date	Application number	Application date
BRPI0809087 A2	20140909	BR2008PI09087	20080313
CN101682934 A	20100324	CN200880016183	20080313
CN103281155 A	20130904	CN201310072960	20080313
CN103281155 B	20170922	CN201310072960	20080313
EP2139255 A1	20091230	EP20080722058	20080313
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EP2375615 A1	20111012	EP20100192700	20080313
EP2375615 B1	20160907	EP20100192700	20080313
EP2755348 A1	20140716	EP20140164177	20080313
IN05972CN2009 A	20100108	IN2009CN05972	20091009
JP2008236432 A2	20081002	JP20070073730	20070320
JP2011259463 A2	20111222	JP20110157108	20110715
JP4824612 B2	20111130	JP20070073730	20070320
JP5094991 B2	20121212	JP20110157108	20110715
KR20090122990 A	20091201	KR200907021366	20080313
MX2009010042 A1	20091012	MX20090010042	20080313
PT2375615 T	20161118	PT20100192700T	20080313
RU2009137085 A	20110427	RU20090137085	20080313
RU2013107652 A	20140727	RU20130107652	20130221
RU2013107652 A	20140727	RU20130107652	20080313
RU2484598 C2	20130610	RU20090137085	20080313
RU2526757 C1	20140827	RU20130107652	20080313
TH95547 A	20090430	TH20081001344	20080319
US2010103891 AA	20100429	US20080531824	20080313
US2013188584 AA	20130725	US20130785865	20130305
US9220020 BB	20151222	US20080531824	20080313
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WO08126623 A1	20081023	WO2008JP54654	20080313

Priority:

CN200880016183 20080313 EP20080722058 20080313 JP20070073730 20070320
 JP20110157108 20110715 US20090531824 20091119 US20130785865 20130305
 WO2008JP54654 20080313

Probable Assignee: NTT DOCOMO INC

Assignee(s): (std): HIGUCHI KENICHI ; ISHII HIROYUKI ; KISHIYAMA YOSHIHISA ; MIKI NOBUHIKO ; NTT DOCOMO INC ; OKUBO NAOTO

Assignee(s): NTT DOSOMO INK ; NTT DOKOMO INK

Inventor(s): (std): KISHIYAMA YOSHIHISA ; KISIJAMA ESIKHISA ; MIKI NOBUHIKO ; MIKI NOBUKHIKO ; NAOTO OKUBO ; NOBUHIKO MIKI ; OKUBO NAOTO ; YOSHIHISA KISHIYAMA ; OOKUBO NAOTO ; OKUBO NAOHITO ; HIGUCHI KENICHI ; HIROYUKI ISHII ; ISHII HIROYUKI ; ISI KHIROJUKI ; KENICHI HIGUCHI ; KHIGUTI KEHN ITI

Inventor(s): KHIGUTI KEHN"ITI

Agent(s): HOFFMANN EITL; OSHA LIANG LLP; ITOH TADAHIKO

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 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

Title: MOBILE COMMUNICATION SYSTEM, BASE STATION APPARATUS, MOBILE STATION APPARATUS, AND MOBILE COMMUNICATION METHOD

Abstract: Source: US2010296460A A mobile communication system in which a mobile station apparatus transmits uplink data to a base station apparatus using a physical uplink shared channel that is allocated by an uplink data transmission permission signal, wherein the base station apparatus allocates, to the mobile station apparatus, by using a radio resource control signal, the physical uplink shared channel for the mobile station apparatus to transmit channel states information, and the mobile station apparatus periodically transmits, to the base station apparatus, the channel states information using the physical uplink shared channel.

Classifications:

International (IPC 8-9): H04J11/00 H04J15/00 H04J99/00 H04Q7/38
H04W24/10 H04W28/18 H04W4/00 H04W40/00 H04W72/04

H04W72/14 (Advanced/Invention);

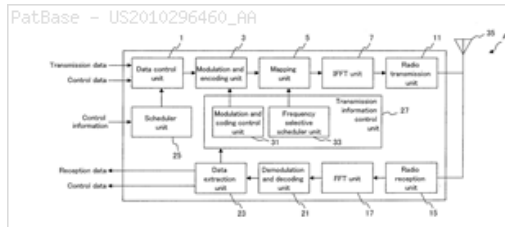
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International (IPC 1-7): H04J15/00 H04Q7/38

CPC: H04L5/0053 H04L1/0027 H04L5/0007

European: H04L1/00A9C H04L5/00A2A1 H04L5/00C6 H04W72/04F

US: 370/328 370/329 370/329P 370/338 370/339 370/342



Family:

Publication number	Publication date	Application number	Application date
EP2160044 A1	20100303	EP20080777150	20080611
JP2008153081 A1	20100826	JP20090519292T	20080611
JP2012165449 A2	20120830	JP20120096224	20120420
JP4981905 B1	20120725	JP20090519292T	20080611
JP4981905 B2	20120725	JP20090519292	20080611
JP5391300 B2	20140115	JP20120096224	20120420
US2010296460 AA	20101125	US20080664264	20080611
US8406173 BB	20130326	US20080664264	20080611
WO08153081 A1	20081218	WO2008JP60712	20080611

Priority:

JP20070155296 20070612 JP20070193486 20070725 WO2008JP60712 20080611
JP20090519292 20080611 JP20120096224 20120420 JP20090519292T 20080611

Probable Assignee: SHARP KK

Assignee(s): (std): AIBA TATSUSHI ; AKIMOTO YOHISUKE ; KATSURAGAWA HIROSHI ; SHARP KK ; YAMADA SHOHEI

Assignee(s): SHARP CORP ; SHARP KABUSHIKI KAISHA

Inventor(s): (std): YAMADA SHOHEI ; KATSURAGAWA HIROSHI ; AKIMOTO YOHISUKE ; AIBA TATSUSHI ; AKIMOTO YOSUKE ; AIBA TATESHI

Agent(s): MUELLER HOFFMANN AND PARTNER; HIRAKI YUSUKE; WATANABE TOSHIKI; IMAMURA KENICHI; BIRCH STEWART KOLASCH AND BIRCH; BIRCH STEWART KOLASCH AND BIRCH LLP

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 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

Title: USER EQUIPMENT TERMINAL, BASE STATION APPARATUS, AND CHANNEL STATE INFORMATION COMMUNICATION METHOD

Abstract: Source: US2010182923A A user equipment terminal estimates a channel state, encodes channel state information representing the estimated channel state, and transmits the channel state information over plural transmission time intervals. A base station apparatus receives the channel state information over plural transmission time intervals, decodes the channel state information, and assigns resources based on the channel state information. The present invention provides the user equipment terminal, the base station apparatus, and a channel state information communication method.

Classifications:

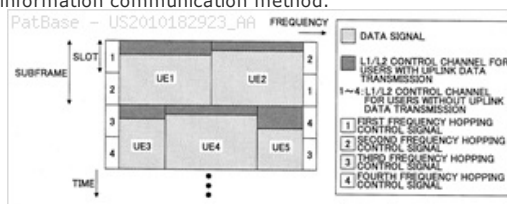
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International (IPC 1-7): H04J11/00 H04Q7/30 H04Q7/38

CPC: H04L1/0026 H04L1/0028 H04L1/0072 H04L1/1671 H04W72/085 H04L25/0202

European: H04L1/00A9B H04L1/00A9F H04L1/00B8 T04L1/16F15

US: 370/252 370/252P 370/328 370/328S 370/329 370/329S 455/452.2

**Family:**

Publication number	Publication date	Application number	Application date
AU2008264551 AA	20081224	AU20080264551	20080616
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CA2691351 AA	20081224	CA20082691351	20080616
CN101785228 A	20100721	CN200880103124	20080616
CN101785228 B	20130814	CN200880103124	20080616
EP2169861 A1	20100331	EP20080765680	20080616
EP2169861 A4	20131030	EP20080765680	20080616
EP3255821 A1	20171213	EP20170183488	20080616
IN07447CN2009 A	20100521	IN2009CN07447	20091221
JP2009004922 A2	20090108	JP20070161948	20070619
JP5019966 B2	20120905	JP20070161948	20070619
KR20100044778 A	20100430	KR20107000599	20080616
RU2010100939 A	20110727	RU20100100939	20080616
US2010182923 AA	20100722	US20080665357	20080616
US8325666 BB	20121204	US20080665357	20080616
WO08156061 A1	20081224	WO2008JP60997	20080616

Priority:

EP20080765680 20080616 JP20070161948 20070619 WO2008JP60997 20080616

Probable Assignee: NTT DOCOMO INC

Assignee(s): (std): KISHIYAMA YOSHIHISA ; MIKI NOBUHIKO ; NTT DOCOMO INC ; SAWAHASHI MAMORU

Inventor(s): (std): YOSHIHISA KISHIYAMA ; SAWAHASHI MAMORU ; NOBUHIKO MIKI ; MIKI NOBUHIKO ; MAMORU SAWAHASHI ; KISHIYAMA YOSHIHISA

Agent(s): SPRUSON AND FERGUSON; HOFFMANN EITL; OSHA LIANG LLP; ITOH TADAHIKO

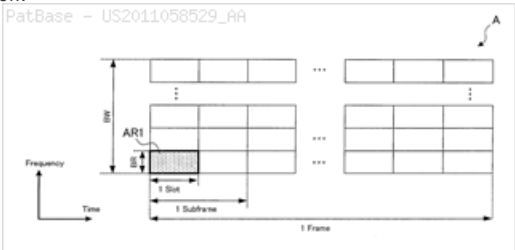
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Title: MOBILE COMMUNICATION SYSTEM, MOBILE STATION APPARATUS, BASE STATION APPARATUS, COMMUNICATION METHOD, AND COMMUNICATION CONTROL METHOD

Abstract: Source: US2011058529A A mobile station apparatus acquires handover information when a handover instruction message is received and continues a reception process in a source cell until handover execution time when the handover is determined to be a synchronous handover. When it is handover execution time, the mobile station apparatus follows handover information to perform cell switch control and starts a downlink synchronization establishment process for a target cell. When downlink synchronization establishment has succeeded before the expiration of a handover protection time and when the mobile station apparatus determines that downlink synchronization establishment has succeeded within a downlink synchronization establishment expected time, the mobile station apparatus determines that uplink synchronization establishment is not necessary for the target cell and executes a synchronous handover process that does not require random access. On the other hand, when determining that the downlink synchronization establishment has not succeeded, the mobile station apparatus determines that uplink synchronization establishment is necessary for the target cell and executes a handover process that requires random access transmission.

Classifications:

International (IPC 8-9): H04Q7/20 H04Q7/38 H04W36/00 H04W36/08 H04W36/24 H04W36/36 H04W4/00 H04W56/00 H04W74/08 H04W84/00 (Advanced/Invention); H04W36/00 H04W4/00 H04W74/00 H04W84/00 (Core/Invention)
CPC: H04W36/0077 H04W74/02
European: H04W36/00P6T T04W74/02
US: 370/331 370/331P



Family:

Publication number	Publication date	Application number	Application date
CN101822095 A	20100901	CN200880110538	20080805
EP2187668 A1	20100519	EP20080792193	20080805
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JP2009020109 A1	20101104	JP20090526458T	20080805
JP5087084 B1	20121128	JP20090526458T	20080805
JP5087084 B2	20121128	JP20090526458T	20080805
US2011058529 AA	20110310	US20080672206	20080805
WO09020109 A1	20090212	WO2008JP63996	20080805

Priority:

JP20070205688 20070807 JP20090526458 20080805 WO2008JP63996 20080805

Probable Assignee: SHARP KK

Assignee(s): (std): SHARP CORP ; SHARP KK ; UEMURA KATSUNARI

Assignee(s): SHARP KABUSHIKI KAISHA

Inventor(s): (std): KATSUNARI UEMURA ; UEMURA KATSUNARI

Inventor(s): UEMURA KATSUNARI C O SHARP KABUSHIKI KAISHA

Agent(s): MUELLER HOFFMANN AND PARTNER; HIRAKI YUSUKE

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

Title: TRANSMISSION APPARATUS, RECEPTION APPARATUS, COMMUNICATION SYSTEM AND TRANSMISSION METHOD

Abstract: Source: US2010195597A A transmission apparatus which communicates with a reception apparatus is provided. The transmission apparatus includes a transmission parameter control unit which sets a transmission parameter of at least one of the **multiplex** channels to be different from those of the other channels, and a transmission unit which transmits information indicating a signal detection order for the **multiplex** channels to the reception apparatus.

Classifications:

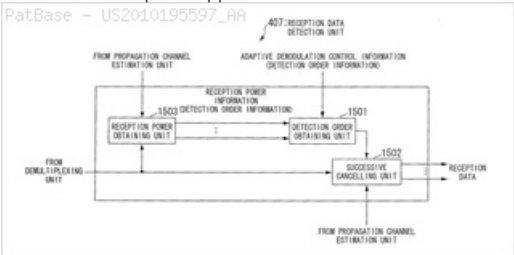
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European: H04B1/7107A H04J11/00F1B1A H04W52/16

T04L25/02C7C

US: 370/329 370/329P



Family:

Publication number	Publication date	Application number	Application date
CN101803257 A	20100811	CN200880107597	20080919
EP2192710 A1	20100602	EP20080831363	20080919
JP2009038178 A1	20110106	JP20090533201T	20080919
JP5111512 B1	20130109	JP20090533201T	20080919
JP5111512 B2	20130109	JP20090533201T	20080919
US2010195597 AA	20100805	US20080678560	20080919
WO09038178 A1	20090326	WO2008JP66991	20080919

Priority:

JP20070245649 20070921 JP20090533201 20080919 WO2008JP66991 20080919

Probable Assignee: SHARP KK

Assignee(s): (std): SHARP KK ; SHIMEZAWA KAZUYUKI ; YAMADA RYOTA ; YOSHIMOTO TAKASHI ; NOGAMI TOSHIZO ; SHARP CORP

Assignee(s): SHARP KABUSHIKI KAISHA

Inventor(s): (std): KAZUYUKI SHIMEZAWA ; NOGAMI TOSHIZO ; RYOTA YAMADA ; SHIMEZAWA KAZUYUKI ; TAKASHI YOSHIMOTO ; TOSHIZO NOGAMI ; YAMADA RYOTA ; YOSHIMOTO TAKASHI

Agent(s): MUELLER HOFFMANN AND PARTNER; BIRCH STEWART KOLASCH AND BIRCH; FUNAYAMA TAKESHI 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 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 ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: WIRELESS COMMUNICATION SYSTEM, BASE STATION APPARATUS AND MOBILE STATION APPARATUS

Abstract: Source: US2011183697A To optimize transmission periods corresponding to kinds of feedback information, and minimize a reduction in system throughput caused by disagreement of the transmission period with the optimal period, by setting transmission frequencies individually with flexibility corresponding to the kinds of feedback information for a mobile station apparatus to transmit to a base station apparatus, in a wireless communication system in which a mobile station apparatus B measures reception quality of a signal received from a base station apparatus A, and transmits feedback information generated based on the reception quality to the base station apparatus A, the base station apparatus A allocates resources of transmission timing corresponding to the kinds of feedback information, and the mobile station apparatus B transmits a plurality of kinds of feedback information to the base station apparatus using the allocated resources.

Classifications:

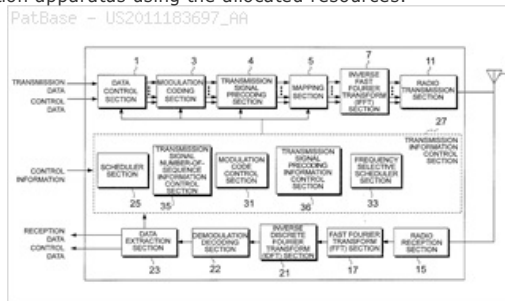
International (IPC 8-9): H04B7/04 H04B7/24 H04J11/00 H04J99/00 H04L1/00 H04L1/16 H04L25/14 H04L27/00 H04L5/00 H04Q7/38 H04Q9/16 H04W16/28 H04W24/00 H04W24/02 H04W24/08 H04W24/10 H04W28/04 H04W28/16 H04W4/00 H04W72/04 H04W72/08 H04W72/12 H04W72/14 (Advanced/Invention); H04L1/00 H04W72/04 H04W72/08 (Advanced/Non-invention); H04J11/00 H04J99/00 H04L1/16 H04W24/00 H04W72/00 (Core/Invention)

International (IPC 1-7): H04Q7/38

CPC: H04L5/0082 H04W72/085 H04L1/0026 H04L1/0027 H04L5/0007 H04L5/0053 H04L5/0057 H04W72/0413

European: H04L5/00A2A1 H04L5/00C6 H04L5/00C6B H04W72/08D T04L1/00A9B T04L1/00A9C T04W72/04F2

US: 370/329 370/329P 370/336 455/450 455/509 455/509P 714/758



Family:

Publication number	Publication date	Application number	Application date
CA2695529 AA	20100203	CA20082695529	20080924
CA2695529 C	20160517	CA20082695529	20080924
CA2922380 AA	20090402	CA20082922380	20080924
CA2922380 C	20170404	CA20082922380	20080924
CN101810043 A	20100818	CN200880108594	20080924
CN101810043 B	20160127	CN200880108594	20080924
CN102281583 A	20111214	CN201110260137	20080924
CN102281583 B	20150527	CN201110260137	20080924
CN105721129 A	20160629	CN201610098515	20080924
CN105813113 A	20160727	CN201610096402	20080924
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EP2194738 A4	20111221	EP20080834345	20080924
EP2395776 A1	20111214	EP20110006176	20080924
EP2395776 B1	20150610	EP20110006176	20080924
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IN02370CN2010 A	20101015	IN2010CN02370	20100423
IN284971 B	20170714	IN2010CN02370	20100423
JP2009041419 A1	20110127	JP20090534327T	20080924
JP2010016836 A2	20100121	JP20090173262	20090724
JP2011024230 A2	20110203	JP20100182505	20100817
JP4639259 B2	20110223	JP20090173262	20090724
JP4689761 B2	20110525	JP20100182505	20100817
US2011183697 AA	20110728	US20080673036	20080924
US2011194520 AA	20110811	US20110090061	20110419
US2014092881 AA	20140403	US20130098024	20131205
US8626217 BB	20140107	US20080673036	20080924
US9681460 BB	20170613	US20130098024	20131205
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Priority:

CA20082695529	20080924	CA20162695529	20160309	JP20070249977	20070926
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JP20090534327	20080924	JP20090173262	20090724	JP20100182505	20100817
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Probable Assignee: HUAWEI TECHNOLOGIES CO LTD

Assignee(s): (std): HUAWEI TECH CO LTD ; SHARP KK ; YAMADA SHOHEI ; KATSURAGAWA HIROSHI ; AIBA TATSUSHI ; AKIMOTO YOSUKE

Assignee(s): HUAWEI TECHNOLOGIES CO LTD SHENZHEN ; HUAWEI TECH CO ; SHARP CORP ; HUAWEI TECHNOLOGIES CO ; HUAWEI TECHNOLOGIES CO LTD ; SHARP KABUSHIKI KAISHA

Inventor(s): (std): AIBA TATESHI ; AKIMOTO YUOSUKE ; HIROSHI KATSURAGAWA ; SHOHEI YAMADA ; TATSUSHI AIBA ; YOSUKE AKIMOTO ; YAMADA SHOHEI ; KATSURAGAWA HIROSHI ; AKIMOTO YOSUKE ; AIBA TATSUSHI

Inventor(s): YAMDA SHOHEI

Agent(s): G RONALD BELL AND ASSOCIATES; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; MUELLER HOFFMANN AND PARTNER; KREUZ GEORG MARIA; LEHMANN MARIA ISABEL; SLATER AND MATSIL LLP; SLATER MATSIL LLP; FUKUCHI TAKEO

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 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 NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: WIRELESS COMMUNICATION SYSTEM, WIRELESS COMMUNICATION METHOD, TRANSMISSION APPARATUS, AND RECEPTION APPARATUS

Abstract: Source: US2009232244A The transmission apparatus performs orthogonalization processing to each of the signal sequence obtained by dividing each of the more than one transmission streams into more than one signal sequence based on the orthogonality of wireless resources. The signal sequence is then sent from multiple antennas. The reception apparatus performs the **orthogonal** separation processing based on the above orthogonality to the received signals to separate multiple reception signal sequence having the **orthogonal** characteristic, and applies a predetermined signal separation scheme based on the propagation path estimation matrix between the reception apparatus and the transmission apparatus to any one of the pairs of the separated reception signal sequence, thereby separating a signal sequence before subjected to the above orthogonalization processing.

Classifications:

International (IPC 8-9): H04B1/707 H04B7/02 H04B7/04 H04B7/06 H04B7/08 H04J11/00 H04J13/18 H04J99/00

H04L27/28 (Advanced/Invention);

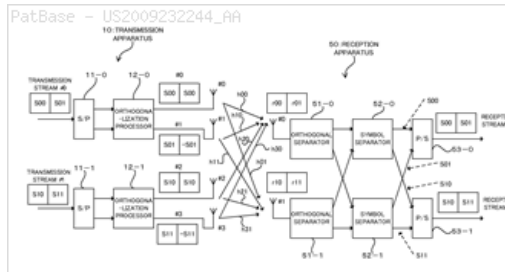
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H04L27/26 (Core/Invention)

CPC: H04B7/06 H04B7/0413 H04B7/0613 H04B7/08

European: H04B7/06 H04B7/06C H04B7/08 T04B7/04M

US: 375/260 375/260S 375/262 375/267 375/267P 375/340 375/343



Family:

Publication number	Publication date	Application number	Application date
EP2104241 A2	20090923	EP20080171984	20081217
EP2104241 A3	20140702	EP20080171984	20081217
JP2009225147 A2	20091001	JP20080067847	20080317
JP5277673 B2	20130828	JP20080067847	20080317
US2009232244 AA	20090917	US20080335988	20081216
US8331474 BB	20121211	US20080335988	20081216

Priority:

JP20080067847 20080317

Probable Assignee: FUJITSU LTD

Assignee(s): (std): FUJITSU LTD ; KAWASAKI TOSHIO

Assignee(s): FUJITSU LIMITED

Inventor(s): (std): KAWASAKI TOSHIO

Agent(s): FENLON CHRISTINE LESLEY; SANADA TAMOTSU; MYERS WOLIN LLC

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK TR

Title: MOBILE STATION APPARATUS, BASE STATION APPARATUS, COMMUNICATION METHOD AND COMMUNICATION SYSTEM

Abstract: Source: US2010248733A In the case that periodical transmission of transmission signal number-of-sequence quality indicative signal cannot be performed, the number of transmission signal sequences is clarified in association with reception quality information that is generated immediately after the case, and the base station apparatus performs appropriate communication resource allocation. A mobile station apparatus has a feedback information control section 65 that generates feedback information including reception quality information, transmission signal preprocessing information and transmission signal number-of-sequence information, and a radio transmission section 51 that periodically transmits the generated feedback information to the base station apparatus, where when the radio transmission section 51 does not transmit the transmission signal number-of-sequence information with communication resources periodically allocated from the base station apparatus so as to transmit the transmission signal number-of-sequence information, the radio transmission section 51 transmits the transmission signal number-of-sequence information to the base station apparatus with communication resources enabling transmission of the feedback information allocated from the base station apparatus subsequently to the communication resources.

Classifications:

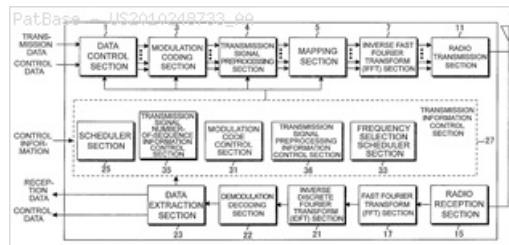
International (IPC 8-9): H04B17/00 H04B17/24 H04B17/309
H04B7/02 H04B7/04 H04B7/0417 H04B7/06 H04B7/26 H04J11/00
H04J3/16 H04L1/00 H04L1/12 H04L1/20 H04L12/953 H04L7/00
H04M1/00 H04W16/28 H04W24/10 H04W4/20 H04W72/04
H04W72/08 H04W74/04 H04W88/02 H04W88/08 H04W92/10
H4L12/953 H4W74/04 (Advanced/Invention);
H04B7/06 H04B7/26 H04J11/00 H04L1/00 H04W72/08 (Advanced/Non-invention);
H04B17/00 H04B7/04 H04J3/16 H04M1/00 H04W16/00 H04W72/00
H04W88/00 (Core/Invention);
H04B7/26 (Core/Non-invention)

International (IPC 1-7): H04W16/28 H04W72/08 H04W88/02

CPC: H04L1/20 H04L1/0026 H04L1/0027 H04B17/24 H04B17/309 H04W24/10 H04W72/0413 H04W72/085 H04L5/0053

European: H04B17/00B1 H04B17/00B4 H04L1/00A9B H04L1/00A9C H04L1/20 H04W72/04F2 T04W72/08D

US: 375/219 375/295 375/316 375/358 455/452.1 455/452.100P 455/561 455/561S 455/67.11 455/67.110P 455/67.13 455/67.130S



Family:

Publication number	Publication date	Application number	Application date
AU2009227233 AA	20090924	AU20090227233	20090313
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CN102006666 B	20131009	CN201010559426	20090313
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EP2262344 A4	20110810	EP20090721471	20090313
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IN01023CN2011 A	20111202	IN2011CN01023	20110214
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JP2009116471 A1	20110721	JP20100503856T	20090313
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JP4558845 B2	20101006	JP20100503856T	20090313
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KR101496502 B1	20150226	KR20107027374	20090313
KR20100137590 A	20101230	KR20107027374	20090313
KR20100138945 A	20101231	KR20107020977	20090313
MX2010010063 A1	20100930	MX20100010063	20090313
TW201004186 A	20100116	TW20090108818	20090318
TW201141114 A	20111116	TW20100144101	20090318
TWI376900 B	20121111	TW20090108818	20090318
TWI376901 B	20121111	TW20100144101	20090318

US2010248733 AA	20100930	US20090739911	20090313
US2011065444 AA	20110317	US20100949549	20101118
US2011269409 AA	20111103	US20110184391	20110715
US8259885 BB	20120904	US20090739911	20090313
US8275084 BB	20120925	US20100949549	20101118
WO09116471 A1	20090924	WO2009JP54926	20090313

Priority:

AU20090227233	20090313	AU20100241486	20101117	BR2009PI10395	20090313
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JP20080072465	20080319	JP20100503856	20090313	JP20090298163	20091228
WO2009JP54926	20090313	US20100739911	20100426	US20100949549	20101118
US20090739911	20090313	US20110184391	20110715	JP20100503856T	20090313

Probable Assignee: HUAWEI TECHNOLOGIES CO LTD

Assignee(s): (std): AIBA TATSUSHI ; AKIMOTO YOSUKE ; HUAWEI TECH CO LTD ; SHARP KK ; SHARP KABUSHIK KAISHA ; SATO SEIJI ; YAMADA SHOHEI

Assignee(s): SHARP CORP ; HUAWEI TECHNOLOGIES CO LTD HUAWEI ADMINISTRATION BUILDING BANTIAN, LONGGANG DISTRICT SHENZHEN 518129 GUANGDONG CN ; SHARP KK22-22, NAGAIKE-CHO ABENO-KU, OSAKA-SHI 545-8522 OSAKA JP ; HUAWEI TECHNOLOGIES CO LTD HUAWEI ADMINISTRATION BUILDING BANTIAN LONGGANG GUANGDONG 518129 SHENZHEN CN ; HUAWEI TECHNOLOGIES CO LTD SHENZHEN ; HUAWEI TECHNOLOGIES CO ; HUAWEI TECHNOLOGIES CO LTD ; SHARP KABUSHIKI KAISHA

Inventor(s): (std): AIBA TATESHI ; AIBA TATSUSHI ; AKIMOTO YOSUKE ; SATO SEIJI ; YAMADA SHOHEI ; YOSUKE AKIMOTO ; TATSUSHI AIBA ; SHOHEI YAMADA ; SEIJI SATO ; YAMADA SHOHEI

Inventor(s): YAMADA SHOHEI JP ; SATO SEIJI JP ; AKIMOTO YOSUKE JP ; AIBA TATSUSHI JP ; YAMADA, Shohei ; SATO, Seiji ; AKIMOTO, Yosuke ; AIBA, Tatsushi

Agent(s): DAVIES COLLISON CAVE PTY LTD ; DAVIES COLLISON CAVE ; GOWLING LAFLEUR HENDERSON LLP ; G RONALD BELL AND ASSOCIATES ; GOWLING WLG CANADA LLP ; MUELLER HOFFMANN AND PARTNER ; KREUZ GEORG MARIA ; BIRCH STEWART KOLASCH AND BIRCH ; BIRCH STEWART KOLASCH AND BIRCH LLP ; FUKUCHI TAKEO

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

Title: MOBILE COMMUNICATION SYSTEM, BASE STATION APPARATUS, MOBILE STATION APPARATUS, AND MOBILE COMMUNICATION METHOD

Abstract: Source: US2011038354A When transmission of a downlink signal is to be performed in sub-frame 5, at this point, no feedback of reception quality information and transmit signal pre-coding information in mode 2, which would be covered by transmit signal pre-coder confirmation, has been performed. Therefore, information on the pre-coding that has been applied to all assigned resources is transmitted by being added to a downlink control signal (353). In sub-frame 9, a downlink signal is transmitted, and transmit signal pre-coder confirmation is added thereto. With respect to this case, the mobile station apparatus determines that the downlink signal has been pre-coded using the transmit signal pre-coding information transmitted in sub-frame 8, and demodulates the received signal with it. Sub-frame 12 represents a case where downlink data is transmitted by assigning sub-band 7. In so doing, it is preferable that the base station apparatus use the reception quality information and transmit signal pre-coding information for sub-band 7 reported in sub-frame 10. Accordingly, the base station apparatus transmits to the mobile station apparatus the transmit signal pre-coding information obtained in sub-frame 10 by explicitly including it in downlink control information (358). Thus, in cases where there exist a plurality of modes for transmitting transmit signal pre-coding information, it is possible to solve the problem where information whose priority should be high is readily overwritten by information of low priority.

Classifications:

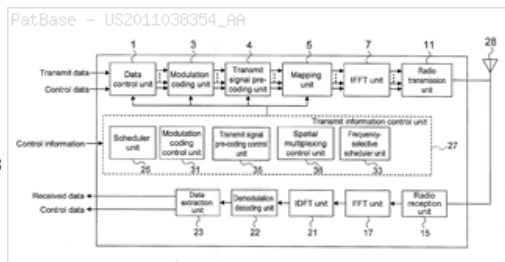
International (IPC 8-9): H04B7/06 H04B7/216 H04J11/00 H04J99/00 H04L5/00 H04W24/10 H04W28/18 H04W72/04 H04W88/02 (Advanced/Invention);

H04J11/00 H04J99/00 H04L25/03 (Advanced/Non-invention); H04W24/00 (Core/Invention); H04J11/00 H04J99/00 (Core/Non-invention)

CPC: H04W72/042 H04B7/0621 H04B7/0656 H04L5/0023 H04L5/0053 H04L5/0057 H04L25/03343 H04L2025/03777

European: H04B7/06C1F1 H04B7/06C1F5T H04L5/00A3C H04L5/00C6 H04L5/00C6B T04L25/03B17 T04L25/03B9

US: 370/329 370/335 370/335P



Family:

Publication number	Publication date	Application number	Application date
CN102017690 A	20110413	CN200980114610	20090423
CN102017690 B	20131106	CN200980114610	20090423
CN103560871 A	20140205	CN201310475954	20090423
CN103560871 B	20170322	CN201310475954	20090423
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EP2280568 A4	20150909	EP20090735607	20090423
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JP5437208 B2	20140312	JP20100208170	20100916
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US2011038354 AA	20110217	US20090989365	20090423
US2013336261 AA	20131219	US20130968951	20130816
US8743841 BB	20140603	US20090989365	20090423
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Priority:

CN200980114610	20090423	JP20080114730	20080425	JP20100509207	20090423
JP20100208170	20100916	US20100989365	20101022	JP20100509207T	20090423
WO2009JP58038	20090423	US20130968951	20130816		

Probable Assignee: SHARP KK

Assignee(s): (std): AIBA TATSUSHI ; AKIMOTO YOSUKE ; SATO SEIJI ; SHARP KK ; YAMADA SHOHEI

Assignee(s): SHARP CORP ; SHARP KABUSHIKI KAISHA

Inventor(s): (std): AIBA TATESHI ; AIBA TATSUSHI ; SATO SEIJI ; AKIMOTO YOSUKE ; SHOHEI YAMADA ; SEIJI SATO ; YAMADA SHOHEI ; YOSUKE AKIMOTO ; TATSUSHI AIBA

Agent(s): MUELLER HOFFMANN AND PARTNER; WATANABE TOSHIKI; IMAMURA KENICHI; SEKIYA MITSUO; HIRAKI YUSUKE; BIRCH STEWART KOLASCH AND BIRCH; BIRCH STEWART KOLASCH AND BIRCH LLP; HIRAKI YUSUKE 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 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 ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: MOBILE STATION APPARATUS, COMMUNICATION SYSTEM AND COMMUNICATION METHOD

Abstract: Source: US2011134782A In the case that the transmission signal precoding information cannot be transmitted, the transmission signal precoding information is clarified that is used to calculate the reception quality information performed immediately after the case, and a base station apparatus perform suitable communication resource allocation. A mobile station apparatus has a feedback information control section 65 that generates feedback information including the reception quality information and the transmission signal precoding information, and transmission sections 41, 43 to 45 and 47 that transmit the generated feedback information to the base station apparatus, and when the transmission sections 41, 43 to 45 and 47 do not transmit the transmission signal precoding information with communication resources allocated from the base station apparatus to transmit the transmission signal precoding information, the feedback information control section calculates the reception quality information transmitted for a period during which the sections do not transmit the transmission signal precoding information and next transmit the transmission signal precoding information, using beforehand defined transmission signal precoding information.

Classifications:

International (IPC 8-9): H04B17/24 H04B17/309 H04L1/00

H04L12/26 H04W24/10 H04W72/04 H04W72/08

H04W88/02 (Advanced/Invention);

H04B7/04 H04B7/06 H04L25/03 H04L5/00 H04W72/04 (Advanced/Non-

invention);

H04W24/00 H04W72/00 (Core/Invention)

CPC: H04B17/24 H04B17/309 H04W72/085 H04B7/0413 H04B7/0671

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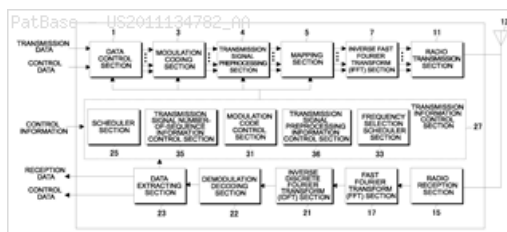
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European: H04B17/00B1 H04B17/00B4 H04L1/00A9B H04W72/08D

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T04W72/04F2

US: 370/252 370/252P 370/329 370/329S

**Family:**

Publication number	Publication date	Application number	Application date
BRPI0915385 A2	20151103	BR2009PI15385	20090618
CN102067659 A	20110518	CN200980123999	20090618
CN102067659 B	20140115	CN200980123999	20090618
EP2299751 A1	20110323	EP20090770074	20090618
EP2299751 A4	20150819	EP20090770074	20090618
EP2299751 B1	20160824	EP20090770074	20090618
JP2009157364 A1	20111215	JP20100517961T	20090618
JP5036869 B1	20120926	JP20100517961T	20090618
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US2011134782 AA	20110609	US20090000914	20090618
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Priority:

JP20080163607 20080623 JP20100517961 20090618 WO2009JP61107 20090618

Probable Assignee: SHARP KK

Assignee(s): (std): AIBA TATSUSHI ; AKIMOTO YOSUKE ; SATO SEIJI ; SHARP CORP ; SHARP KK ; YAMADA SHOHEI

Assignee(s): SHARP KABUSHIKI KAISHA

Inventor(s): (std): AIBA TATSUSHI ; AKIMOTO YOSUKE ; SATO SEIJI ; SEIJI SATO ; SHOHEI YAMADA ; TATSUSHI AIBA ; YAMADA SHOHEI ; YOSUKE AKIMOTO

Agent(s): MUELLER HOFFMANN AND PARTNER; FUKUCHI TAKEO

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 TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: APPARATUS AND METHOD FOR DATA TRANSMISSION USING TRANSMIT DIVERSITY IN SC-FDMA

Abstract: Source: US2011103341A An apparatus for data transmission is provided. The apparatus includes a data processor encoding an information bit and generating a modulation symbol by performing constellation mapping on the encoded information bit, a discrete Fourier transform (DFT) unit performing DFT on the modulation symbol to generate a frequency-domain symbol, a space time block coding (STBC) processor performing STBC on the frequency-domain symbol to generate an STBC code consisting of 1st and 2nd STBC streams, a subcarrier mapper mapping the 1st STBC stream to a 1st subcarrier and mapping the 2nd STBC stream to a 2nd subcarrier, an inverse fast Fourier transform (IFFT) unit performing IFFT on the 1st subcarrier to generate a 1st single carrier-frequency division multiple access (SC-FDMA) symbol and performing IFFT on the 2nd subcarrier to generate a 2nd SC-FDMA symbol, and a plurality of transmit antennas transmitting the 1st and 2nd SC-FDMA symbols. STBC is effectively applied to a SC-FDMA system to decrease a peak-to-average power ratio (PAPR) and to maintain a single-carrier property.

Classifications:

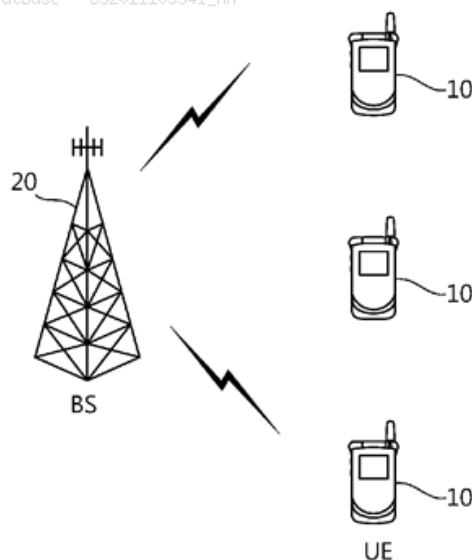
International (IPC 8-9): H04B1/713 H04B7/02 H04B7/04 H04B7/06 H04B7/204 H04B7/208 H04B7/216 H04B7/26 H04J1/00 H04J1/02 H04J11/00 H04L1/02 H04L27/00 H04L27/04 H04L27/26 H04W16/28 H04W4/00 H04W4/18 H04W40/00 H04W72/04 (Advanced/Invention); H04B7/06 H04B7/208 H04L27/26 (Advanced/Non-invention); H04B7/02 H04B7/04 H04B7/204 H04B7/26 H04J1/00 H04J11/00 H04L1/02 H04L27/26 (Core/Invention)

CPC: H04B7/0613 H04B7/0604 H04B7/068 H04B7/0695 H04B7/0697 H04B7/12 H04L25/03343 H04L27/2615 H04L27/2626 H04B7/0678 H04L5/0042 H04L5/0007 H04L5/0037 H04L5/0048 H04L5/006 H04L25/0204 H04L25/0226 H04L27/2613 H04L27/2617 H04L27/2636 H04B7/0689 H04B7/0669 H04B7/0671 H04B7/0691 H04L1/0606 H04L1/0625 H04L1/0668 H04L5/0023 H04B7/0617 H04L1/08 H04L1/1671 H04L5/0044 H04L27/2614 H04L27/2628 H04B7/0413

European: H04B7/06C H04B7/06C2C H04B7/06C2D H04B7/06C3 H04B7/06H1 H04B7/06H2 H04B7/06H3 H04L1/06F H04L1/06T3 H04L1/06T7T H04L25/03B9 H04L27/26M2 H04L27/26M2A H04L27/26M2A1 H04L27/26M3A1 H04L27/26M3A3F H04L5/00A3C H04L5/00C2 H04L5/00C3 H04L5/00C5 H04L5/00C7A T04B7/06B1 T04B7/06C1B T04B7/06C2C T04B7/06C2D T04B7/06C3 T04B7/06C4 T04B7/06M T04B7/12 T04L1/08 T04L1/16F15 T04L25/02C1 T04L25/02C7A T04L27/26M1R3 T04L27/26M3 T04L5/00A2A1 T04L5/00A3C T04L5/00C4

US: 370/319 370/328 370/328P 370/329 370/329P 370/335 370/344 370/344P 370/480 370/480P 375/135 375/135P 375/267 375/295 375/295S 375/299 375/347 375/E1.033 375/E10.33S 455/402 455/422.1

PatBase - US2011103341_AA



Family:

Publication number	Publication date	Application number	Application date
KR101440628 B1	20140917	KR20080134256	20081226
KR101467586 B1	20141202	KR20090031930	20090413
KR101497154 B1	20150302	KR20080135991	20081229
KR101507170 B1	20150331	KR20080134255	20081226
KR101534349 B1	20150710	KR20090047224	20090529
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KR20100019930 A	20100219	KR20080134256	20081226
KR20100097584 A	20100903	KR20090084317	20090908
US2011103341 AA	20110505	US20090000706	20090626
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US2011134903 AA	20110609	US20090058488	20090605
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US2011222588 AA	20110915	US20090000958	20090605
US2012027004 AA	20120202	US20090132220	20091007
US8400958 BB	20130319	US20090058488	20090605
US8520598 BB	20130827	US20090000546	20090605
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US8565211 BB	20131022	US20090001219	20090626
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WO09157658 A3	20100311	WO2009KR03012	20090605
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WO10018922 A9	20100805	WO2009KR03037	20090605

Priority:

KR20080134255	20080813	KR20080134255	20081226	KR20080135991	20081229
KR20090031930	20090413	KR20090042729	20090515	KR20080134256	20081226
US20080075754P	20080626	US20080081377P	20080716	US20080087975P	20080811
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KR20090084317	20090908	US20090000470	20090605	US20090155899P	20090226
US20090155131P	20090224	WO2009KR03466	20090626	WO2009KR03026	20090605
WO2009KR03037	20090605	WO2009KR03012	20090605	WO2009KR03487	20090626
US20090001219	20090626	US20090000546	20090605	WO2009KR03027	20090605
US20090000958	20090605	WO2009KR05723	20091007	US20090132220	20091007
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Probable Assignee: LG ELECTRONICS INC

Assignee(s): (std): CHUNG JAE HOON ; CHUNG JEA HOON ; HAN SEUNG HEE ; IHM BIN CHUL ; KO HYUN SOO ; KWON YEONG HYEON ; LG ELECTRONICS INC ; LEE MOON IL ; KO HYUNSOO ; LEE II MOON ; LEE MOON II

Inventor(s): (std): CHUNG JAE HOON ; HAN SEUNG HEE ; IHM BIN CHUL ; KO HYUN SOO ; KO HYUNSOO ; KWON YEONG HYEON ; LEE MOON IL ; LEE MOON II ; LEE II MOON ; CHUNG JEA HOON

Agent(s): MORGAN LEWIS AND BOCKIUS LLP; YANG MOON OCK

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

Title: SUB-CHANNEL ACQUISITION IN A DIGITAL TELEVISION RECEIVER DESIGNED TO RECEIVE MOBILE/HANDHELD SIGNALS

Abstract: Source: US2010061465A When a change in sub-channel selection is made after a mobile/handheld (M/H) Frame is begun, an M/H receiver is for some time unable to correct byte errors by transverse Reed-Solomon (TRS) decoding of turbo decoding results. Despite this, later stages of the M/H receiver are supplied data that cyclic-redundancy-check (CRC) decoding of Internet protocol (IP) packets does not find to be in error. Some of the IP packets comprise Service Map Table (SMT)-mobile/handheld (MH) data used to update SMT determining how the M/H receiver is operated. SMT-MH data that have not been subjected to TRS byte-error correction are kept from updating the SMT until those SMT-MH data are verified by later SMT-MH data subjected to TRS byte-error correction. Transmitting total number of Groups (TNOG)-one information for the currently received M/H Frame in all its sub-frames speeds up acquisition of Fast Information Channel updates by the M/H receiver.

Classifications:

International (IPC 8-9): G06F11/08 G06F11/10 H03C1/52 H03D3/24 H03M13/00 H03M13/15 H03M13/27 H03M13/29 H03M13/45 H04L27/00 H04L27/02 H04L27/04 H04L27/06 H04L5/12 H04N5/40 H04N5/44 H04N5/45 H04N5/46 H04N7/00

H04N7/26 (Advanced/Invention);

H04N5/40 H04N5/46 H04N7/015 (Advanced/Non-invention);

H04N5/38 H04N5/44 H04N5/46 H04N7/26 (Core/Invention);

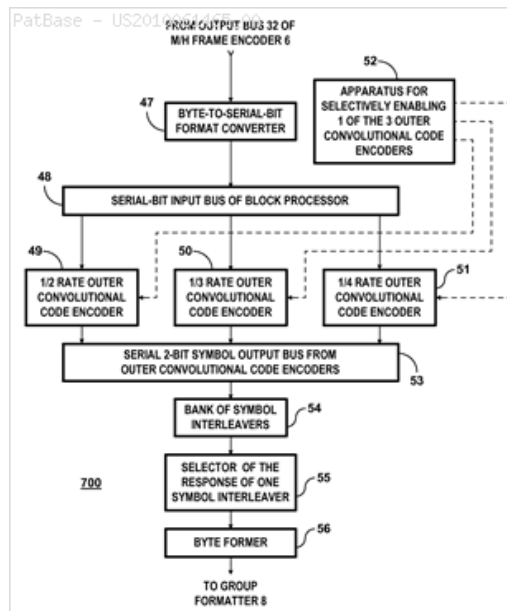
H04N5/38 (Core/Non-invention)

International (IPC 1-7): H04N5/46

CPC: H04N7/24 H04L1/0041 H04L1/006 H04L27/02 H04L27/04 H04N21/2383 H04N21/4382 H04L25/03057 H04L25/03203 H04L25/03318 H03M13/09 H03M13/1515 H03M13/27 H03M13/2732 H03M13/2927 H03M13/2948 H03M13/2954 H03M13/2966 H03M13/2972 H03M13/37 H03M13/3746 H03M13/618 H04L1/005 H03M13/155 H04L1/007 H03M13/6538 H04L1/0045 H04L1/0066 H04L1/0071 H04L1/0057 H04L1/0059 H04L1/0065 H04L2001/0093 H04N5/4401 H04N21/2381 H04N21/41407 H04N21/4381 H04N21/64322 H04N5/46

European: H03M13/15P1 H03M13/27C H03M13/29B9 H03M13/29M H03M13/29P H03M13/29T1C H03M13/29T1S H03M13/37K H03M13/65K6 H04L1/00B3 H04L1/00B5 H04L1/00B5E5 H04L1/00B7B H04L1/00B7C H04L1/00B7C1 H04L1/00B7K1 H04L1/00B7K3 H04L1/00B7U H04L1/00B7V H04L25/03B1A7 H04L25/03B7C H04L25/03B7K1 H04L27/02 H04L27/04 H04N21/2383 H04N21/438M H04N5/44N H04N5/46 H04N7/24 T03M13/09 T03M13/15P1 T03M13/15P6 T03M13/27 T03M13/29T1S T03M13/37 T03M13/61S T04L1/00T1

US: 348/467 348/467P 348/724 348/724P 348/724S 348/725 348/725S 348/726 348/726S 348/731 348/E5.094 348/E5.096 348/E5.113 348/E50.94S 348/E50.96S 348/E51.13S 348/E7.001 348/E70.01S 375/219 375/240.25 375/240.250P 375/240.27 375/240.270P 375/262 375/270 375/295 375/295S 375/301 375/316 375/320 375/321 375/321S 375/340 375/340P 375/341 375/341S 375/E7.027 375/E7.279 375/E70.27S 375/E72.79S 714/751 714/751P 714/755 714/755P 714/758 714/762 714/763 714/763P 714/776 714/780 714/784 714/786 714/792 714/792S 714/E11.03 714/E11.030S 714/E11.032 714/E11.032S 714/E11.034 714/E11.034S

**Family:**

Publication number	Publication date	Application number	Application date
CA2736470 AA	20100311	CA20092736470	20090908
CN102210143 A	20111005	CN200980144445	20090908
CN102210143 B	20141231	CN200980144445	20090908
EP2327209 A1	20110601	EP20090812375	20090908
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KR101493921 B1	20150216	KR20117008237	20090908
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MX2011002590 A1	20110728	MX20110002590	20090908
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Priority:

US20080191323P 20080908	US20080194599P 20080929	US20080203584P 20081222
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US20110931688	20110208				

Probable Assignee: BROADQAST SOLUTIONS LLC

Assignee(s): (std): LIMBERG ALLEN LEROY ; SAMSUNG ELECTRONICS CO LTD

Assignee(s): LIMBERG ASTC INTELLECTUAL PROPERTY LLC ; SAMSUNG ELECTRONICS CO ; BROADQAST SOLUTIONS LLC ; CERINET USA INC

Inventor(s): (std): LIMBERG ALLEN LEROY ; LIMBERG ALLEN LE ROY ; LEROY LIMBERG ALLEN

Inventor(s): ALLEN LEROY LIMBERG

Agent(s): FETHERSTONHAUGH AND CO; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER ANWALTSSOZIETAET; SUGHRUE MION PLLC; ALLEN LEROY LIMBERG ESQ; PARK SEUNGHEE 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 TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: SIGNAL GENERATING CIRCUIT, OPTICAL SIGNAL TRANSMITTING APPARATUS, SIGNAL RECEIVING CIRCUIT, METHOD FOR ESTABLISHING OPTICAL SIGNAL SYNCHRONIZATION, AND OPTICAL SIGNAL SYNCHRONIZATION SYSTEM

Abstract: Source: US2012070159A To enable signal position detection, frequency offset compensation, clock offset compensation, and chromatic dispersion amount estimation in a communication system based on coherent detection using an optical signal, even on a signal having a great offset in an arrival time depending on a frequency due to chromatic dispersion. An optical signal transmitting apparatus generates specific frequency band signals having power concentrated on two or more specific frequencies and transmits a signal including the specific frequency band signals. An optical signal receiving apparatus converts a received signal into a digital signal, detects positions of the specific frequency band signals from the converted digital signal, estimates frequency positions of the detected specific frequency band signals, and detects a frequency offset between an optical signal receiving apparatus and an optical signal transmitting apparatus. Moreover, the optical signal receiving apparatus detects a clock offset between the optical signal receiving apparatus and the optical signal transmitting apparatus from an interval between the estimated frequency positions of the specific frequency band signals. Furthermore, the optical signal receiving apparatus estimates temporal positions of the detected specific frequency band signals and detects a chromatic dispersion amount from a difference between the temporal positions of the specific frequency band signals corresponding to different frequencies.

Classifications:

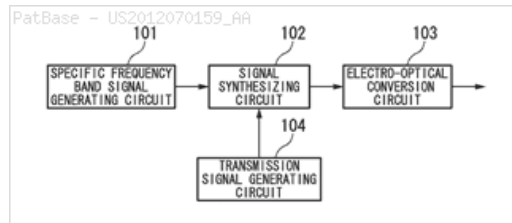
International (IPC 8-9): H04B1/69 H04B10/079 H04B10/12 H04B10/14 H04B10/2513 H04B10/26 H04B10/28 H04B10/50 H04B10/556 H04B10/61 H04J14/00 H04J14/02 H04J14/04 H04J14/06 H04L7/08 (Advanced/Invention); H04L7/027 (Advanced/Non-invention)

International (IPC 1-7): H04B10/02 H04B10/04 H04B10/06 H04B10/14 H04B10/18 H04B10/26 H04B10/28

CPC: H04B10/07951 H04B10/556 H04B10/616 H04L7/027 H04B10/6161 H04B10/50 H04B10/2513

European: H04B10/07951 H04B10/2513 H04B10/556 H04B10/60 H04B10/616 T04L7/027

US: 375/130 375/130S 375/E1.001 375/E10.01S 398/154 398/154S 398/182 398/182S 398/193 398/202 398/202P 398/208 398/208S 398/79 398/79S



Family:

Publication number	Publication date	Application number	Application date
CN102422571 A	20120418	CN201080020412	20100518
CN102422571 B	20160615	CN201080020412	20100518
EP2434665 A1	20120328	EP20100777559	20100518
EP2434665 A4	20130102	EP20100777559	20100518
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JP2010134321 A1	20121108	JP20110514327T	20100518
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Priority:

JP20090120301	20090518	JP20090120302	20090518	JP20090164254	20090710
JP20110514327	20100518	US20110318757	20111103	US20140550262	20141121
WO2010JP03331	20100518	US20140550424	20141121		

Probable Assignee: NIPPON TELEGRAPH AND TELEPHONE CORP

Assignee(s): (std): ISHIHARA KOICHI ; KOBAYASHI TAKAYUKI ; KUDO RIICHI ; MATSUI MUNEHICO ; NIPPON TELEGRAPH AND TELEPHONE ; MIYAMOTO YUTAKA ; TAKATORI YASUSHI ; MIZOGUCHI MASATO ; NAKAGAWA TADAO ; SANO AKIHIDE ; YAMANAKA SHOGO ; YAMAZAKI ETSUSHI ; YOSHIDA EIJI

Assignee(s): NIPPON TELEGRAPH AND TELEPHONE CORP

Inventor(s): (std): AKIHIDE SANO ; EIJI YOSHIDA ; ETSUSHI YAMAZAKI ; ISHIHARA KOICHI ; KOBAYASHI TAKAYUKI ; KOICHI ISHIHARA ; KUDO RIICHI ; MASATO MIZOGUCHI ; MATSUI MUNEHICO ; MIYAMOTO YUTAKA ; MIZOGUCHI MASATO ; MUNEHICO MATSUI ; NAKAGAWA TADAO ; RIICHI KUDO ; SANO AKIHIDE ; SHOGO YAMANAKA ; TADAO NAKAGAWA ; TAKATORI YASUSHI ; TAKAYUKI KOBAYASHI ; YAMANAKA SHOGO ; YAMAZAKI ETSUSHI ; YASUSHI TAKATORI ; YOSHIDA EIJI ; YUTAKA MIYAMOTO

Agent(s): ILGART JEAN CHRISTOPHE; SHIGA INT PATENT OFFICE; HARNESS DICKEY AND PIERCE PLC; SHIGA MASATAKE 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: WIRELESS TRANSMISSION SYSTEM, WIRELESS COMMUNICATION DEVICE, AND WIRELESS COMMUNICATION METHOD

Abstract: Source: US2011051780A A wireless transmission system includes: a communication unit for transmission; and a communication unit for reception. The communication units for transmission and reception are housed in a housing of the same electronic apparatus, or the communication unit for transmission is housed in a housing of first electronic apparatus and the communication unit for reception is housed in a housing of second electronic apparatus and a wireless signal transmission path enabling wireless information transmission between the communication units is formed between the communication units when the first and the second electronic apparatus are disposed at given positions to be integrated with each other. The communication unit for transmission includes a first carrier signal generating unit and a first frequency converter, and the communication unit for reception includes a second carrier signal generating unit, and a second frequency converter.

Classifications:

International (IPC 8-9): H01L21/822 H01L27/04 H03B5/12 H03D3/06

H03K7/06 H04B1/00 H04B1/04 H04B1/26 H04B1/38 H04B1/40 H04B1/69 H04B7/00 H04B7/005 H04B7/015 H04B7/02 H04B7/04 H04B7/06 H04B7/08 H04B7/24 H04H60/90 H04J99/00 H04K1/10 H04L H04L1/02 H04L1/06 H04L27/00 H04L27/04 H04L27/10 H04L27/12 H04L27/20 H04L27/32 H04L27/36 H04L7/00 H04L9/08 H04N5/225 H04W16/28 H04W24/02 H04W4/00 H04W40/02 (Advanced/Invention);

H01L21/822 H01L27/04 H04W72/04 (Advanced/Non-invention)

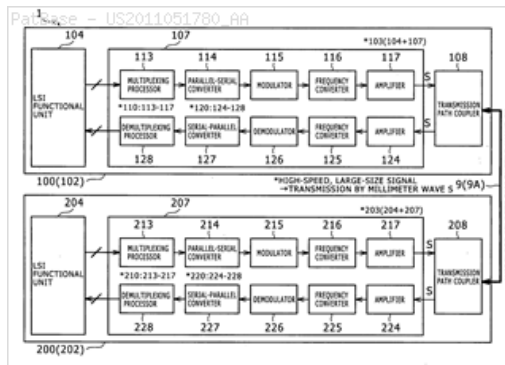
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European: H04B1/04 H04B1/40 H04B7/04M H04B7/06C5

H04B7/06M H04L27/02 H04L27/18 T04W52/26M

US: 1/1 370/206 370/223 370/224 370/229 370/252 370/252P 370/278 370/329 370/329S 375/135 375/135P 375/219 375/219P 375/260 375/260P 375/267 375/271 375/358 455/101 455/101P 455/103 455/114.2 455/39 455/500 455/517 455/63.1 455/67.11 455/67.13 455/88

**Family:**

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Probable Assignee: SONY CORP

Assignee(s): (std): KAWASAKI KENICHI ; MIHOTA NORIHITO ; MIHOTO NORIHITO ; SONY CORP ; TAKEUCHI HIDENORI

Assignee(s): SONI KORPOREJSHN

Inventor(s): (std): HIDENORI TAKEUCHI ; KAWASAKI KENICHI ; KENICHI KAWASAKI ; MIHOTA NORIHITO ; MIKHOTA NORIKHITO ; NORIHITO MIHOTA ; TAKEUCHI HIDEMICHI ; TAKEUCHI HIDENORI ; TAKEUCHI HILDENORI ; KAVASAKI KENITI ; MIHOTO NORIHITO

Inventor(s): HILDENORI TAKEUCHI

Agent(s): JACKSON JONATHAN ANDREW; EALEY DOUGLAS RALPH; D YOUNG AND CO LLP; BERRYMAN ROBERT JAN; INAMOTO YOSHIO; YAMAMOTO TAKAHISA; RADER FISHMAN AND GRAUER PLLC; DENTONS US LLP; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP; MICHAEL BEST AND FRIEDRICH LLP; KAMEYA YOSHIAKI 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 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: BANDWIDTH VARIABLE COMMUNICATION METHOD, BANDWIDTH VARIABLE COMMUNICATION APPARATUS, TRANSMISSION BANDWIDTH DETERMINATION APPARATUS, TRANSMISSION BANDWIDTH DETERMINATION METHOD, NODE APPARATUS, COMMUNICATION PATH SETTING SYSTEM, COMMUNICATION PATH SETTING

Abstract: Source: US2012224851A A bandwidth variable communication method is provided that enables effective use of frequency bandwidths in which the bit rate is constant in every optical path. The bandwidth variable communication method includes, when a network management apparatus sets or changes an optical path that passes through plural communication apparatuses, measuring or obtaining an optical signal quality deterioration amount in a route of the optical path; selecting a modulation format in which a spectrum bandwidth is the narrowest from among modulation formats by which transmission is available on conditions of the optical signal quality deterioration amount and a desired bit rate B (bit/s); and exchanging control information between the network management apparatus and a control unit of each communication apparatus on the optical path route. A bandwidth variable communication apparatus receives the control information, and changes a passband based on the received control information.

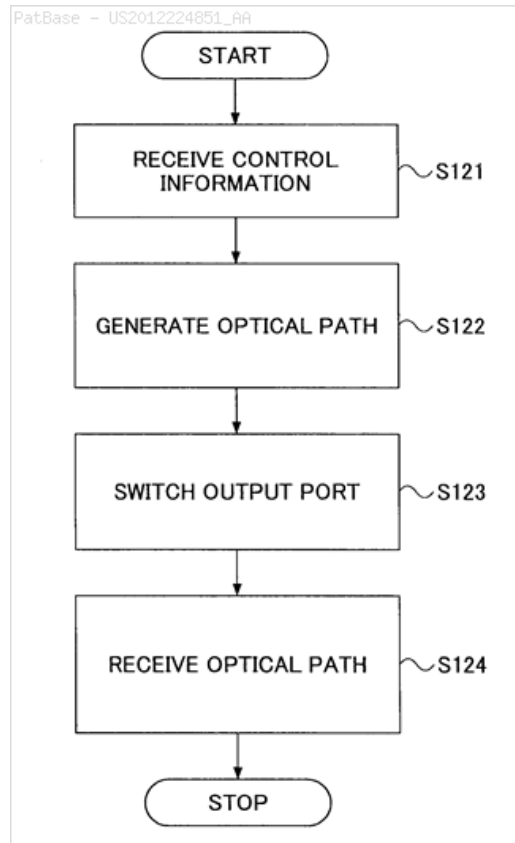
Classifications:

International (IPC 8-9): H04B10/032 H04B10/04 H04B10/06 H04B10/079 H04B10/142 H04B10/152 H04B10/20 H04B10/27 H04B10/516 H04J14/00 H04J14/02 H04J14/06 H04L12/42 H04L12/437 H04L29/08 H04Q3/52 (Advanced/Invention)

CPC: H04L12/42 H04B10/0793 H04B10/07953 H04J14/02 H04J14/0204 H04J14/0212 H04J14/0213 H04J14/0217 H04J14/0221 H04J14/0224 H04J14/0254 H04J14/0257 H04J14/026 H04J14/0267 H04J14/0268 H04J14/0269 H04J14/0295 H04L12/437

European: H04B10/0793 H04B10/07953 H04J14/02 H04J14/02A1R2 H04J14/02A1W H04J14/02A2D H04J14/02B H04J14/02D H04J14/02M H04L12/42 H04L12/437

US: 370/252 398/45



Family:

Publication number	Publication date	Application number	Application date
JP2011030897 A1	20130207	JP20110530906T	20100913
JP5398839 B1	20140129	JP20110530906T	20100913
JP5398839 B2	20140129	JP20110530906T	20100913
US2012224851 AA	20120906	US20100395747	20100913
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WO11030897 A1	20110317	WO2010JP65765	20100913

Priority:

JP20090212148 20090914 JP20100066826 20100323 JP20100068796 20100324
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Probable Assignee: MAXIMUM VISIBILITY SOLUTIONS LLC

Assignee(s): (std): BARTLOMIEJ KOZICKI ; HIRANO AKIRA ; JINNO MASAHIKO ; NIPPON TELEGRAPH AND TELEPHONE ; SONE YOSHIKI ; WATANABE ATSUSHI ; TANAKA TAKAFUMI ; TAKARA HIDEHIKO

Assignee(s): NIPPON TELEGRAPH AND TELEPHONE CORP ; MAXIMUM VISIBILITY SOLUTIONS LLC

Inventor(s): (std): BARTLOMIEJ KOZICKI ; HIRANO AKIRA ; JINNO MASAHIKO ; SONE YOSHIKI ; TAKARA HIDEHIKO ; TANAKA TAKAFUMI ; WATANABE ATSUSHI

Agent(s): ITOH TADASHIGE; ITOH TADAHIKO; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP; ITOH TADAHIKO ET AL

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

Abstract: Source: US2012263060A Efficient transmission control of power headroom is performed by a mobile station apparatus that includes a power headroom control unit which manages a power headroom which is a difference between a maximum transmit power value determined for each uplink carrier component by a base station and a predetermined power value estimated for uplink transmission. A path loss measurement unit monitors a path loss of a downlink carrier component informed from the base station among a plurality of downlink carrier components. When a path loss value of any downlink carrier component changes more than a predetermined value, the power headroom control unit modifies transmission to the base station apparatus of the power headroom for uplink transmission corresponding to all the downlink carrier components set by the base station apparatus.

Classifications:

International (IPC 8-9): H04J11/00 H04L1/18 H04L12/26 H04W24/10 H04W52/00 H04W52/04 H04W52/32 H04W52/34 H04W52/36

H04W72/04 H04W8/22 H04W92/10 (Advanced/Invention);

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H04W52/04 (Core/Non-invention);

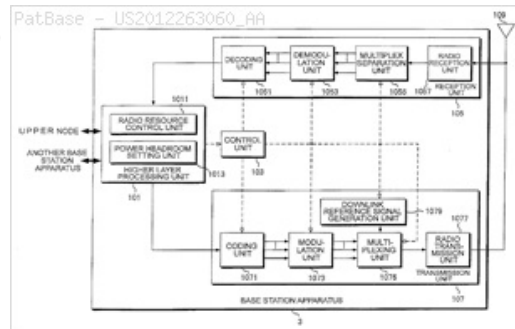
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European: H04W52/36 H04W52/36H

US: 370/252 370/254 370/328 370/329



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Probable Assignee: SHARP KK

Assignee(s): (std): SHARP KK ; SUZUKI SHOICHI ; YAMADA SHOHEI

Assignee(s): SHARP CORP ; SHARP K K ; SHARP KABUSHIKI KAISHA

Inventor(s): (std): SHOHEI YAMADA ; SHOICHI SUZUKI ; SUZUKI SHOICHI ; YAMADA SHOHEI

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; G RONALD BELL AND ASSOCIATES; MUELLER HOFFMANN AND PARTNER; Müller - Hoffmann & Partner; BIRCH STEWART KOLASCH AND BIRCH LLP; FUKUCHI TAKEO

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 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: COMMUNICATION METHOD, MOBILE STATION APPARATUS, BASE STATION APPARATUS AND MOBILE COMMUNICATION SYSTEM

Abstract: Source: US2013010721A In case that a base station apparatus and a mobile station apparatus use a plurality of component carriers to communicate with each other, they effectively transmit and receive HARQ control information. At least one physical downlink control channel on at least a first downlink component carrier attempts to be decoded, and, in case that one physical downlink control channel corresponding to one physical downlink shared channel transmission on a second downlink component carrier other than the first downlink component carrier is detected, the HARQ control information is transmitted to the base station apparatus using a first physical uplink control channel resource whereas, in case that one physical downlink control channel corresponding to one physical downlink shared channel transmission on the first downlink component carrier is detected, the HARQ control information is transmitted to the base station apparatus using a second physical uplink control channel resource.

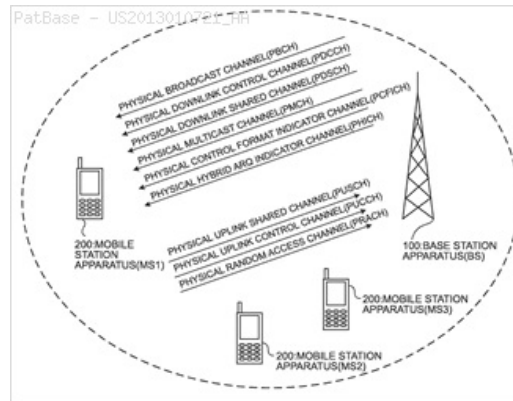
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International (IPC 8-9): H04J1/00 H04J11/00 H04J13/18 H04J13/22 H04L1/18 H04L29/02 H04L5/00 H04W28/04 H04W4/00 H04W72/04 H04W72/12 H04W76/02 (Advanced/Invention)

CPC: H04L1/1861 H04L1/1893 H04W72/0413 H04L5/0055 H04W72/042 H04L5/0091 H04W76/02 H04L1/1812 H04W72/0406

European: H04L1/18T11 T04L1/18D

US: 1/1 370/329 370/341



Family:

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Probable Assignee: SHARP KK

Assignee(s): (std): AIBA TATSUSHI ; SHARP KK ; SUZUKI SHOICHI ; YAMADA SHOHEI

Assignee(s): SHARP CORP ; SHARP KABUSHIKI KAISHA

Inventor(s): (std): AIBA TATESHI ; AIBA TATSUSHI ; SHOHEI YAMADA ; SHOICHI SUZUKI ; SUZUKI SHOICHI ; TATSUSHI AIBA ; YAMADA SHOHEI

Agent(s): Müller - Hoffmann &, Partner; MUELLER HOFFMANN AND PARTNER; BIRCH STEWART KOLASCH AND BIRCH LLP; FUKUCHI TAKEO

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: MOBILE STATION APPARATUS, COMMUNICATION METHOD, INTEGRATED CIRCUIT, RADIO COMMUNICATION SYSTEM, AND CONTROL PROGRAM

Abstract: Source: US2013034089A In a radio communication system including a plurality of mobile station apparatuses and a base station apparatus, a physical uplink reference signal and a physical uplink control channel signal are efficiently controlled and the mobile station apparatus appropriately transmits a signal. The mobile station apparatus includes: a radio resource control unit 403 that sets a radio resource of a reference signal for measuring channel quality and a radio resource of a physical uplink control channel; a simultaneous transmission control unit 4051 which, when transmitting the physical uplink control channel signal in a time frame in which the radio resource of the reference signal has been set, controls a signal transmission processing depending on whether each radio resource has been set to the same component frequency band or each radio resource has been set to a different component frequency band; and a transmission processing unit 407 that transmits the reference signal and/or the physical uplink control channel signal based on the control of the simultaneous transmission control unit.

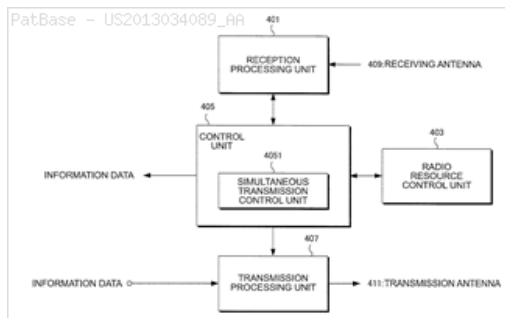
Classifications:

International (IPC 8-9): H04J11/00 H04L27/01 H04L5/00 H04W28/06 H04W4/00 H04W72/02 H04W72/04 (Advanced/Invention)

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European: H04L5/00A2A11 H04L5/00C5 H04L5/00C6 H04W72/04F2

US: 1/1 370/336 370/337



Family:

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Priority:

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Probable Assignee: SHARP KK

Assignee(s): (std): AIBA TATSUSHI ; NAKASHIMA DAIICHIRO ; OUCHI WATARU ; SHARP KABUSHIK KAISHA ; SHARP KK ; SUZUKI SHOICHI

Assignee(s): SHARP KABUSHIKI KAISHA ; SHARP CORP

Inventor(s): (std): AIBA TATESHI ; AIBA TATSUSHI ; DAIICHIRO NAKASHIMA ; NAKAJIMA TAIICHIRO ; NAKASHIMA DAIICHIRO ; OUCHI WATARU ; SHOICHI SUZUKI ; SUZUKI SHOICHI ; TATSUSHI AIBA ; WATARU OUCHI

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; G RONALD BELL AND ASSOCIATES; Müller - Hoffmann &, Partner; BIRCH STEWART KOLASCH AND BIRCH LLP; FUKUCHI TAKEO

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 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: MOBILE STATION DEVICE, RADIO COMMUNICATION METHOD AND CIRCUIT DEVICE

Abstract: Source: US2013010722A A mobile station device communicates with a base station device. The mobile station device includes a reception unit receiving downlink data and a downlink control channel including information indicating a radio resource for contention based signal transmission, and a transmission unit transmitting at least one of ACK/NACK for the downlink data and a contention based signal when the ACK/NACK and the contention based signal collide with each other in the same uplink time frame.

Classifications:

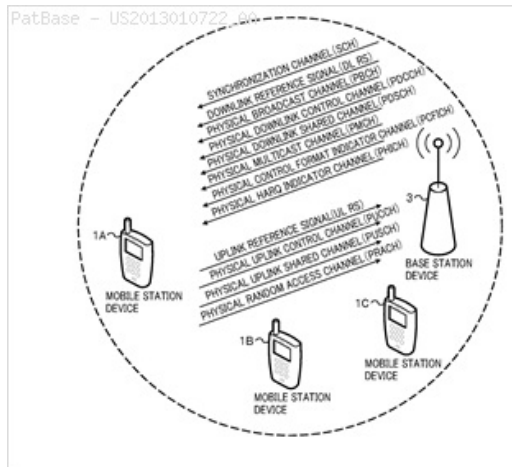
International (IPC 8-9): H04J11/00 H04L1/16 H04L1/18 H04L5/00 H04W24/10 H04W28/04 H04W4/00 H04W52/24 H04W72/04 H04W72/12 H04W74/08 (Advanced/Invention);

H04W28/04 H04W72/12 (Advanced/Non-invention)

CPC: H04W52/24 H04L5/0092 H04W72/04 H04W28/04 H04L1/1854 H04L5/0007 H04L5/0037 H04L5/0053 H04L5/0055 H04L5/0058 H04L5/0091 H04W28/042 H04W72/12 H04W74/08

European: H04L1/18R7 H04L5/00A2A1 H04L5/00C2 H04L5/00C6 H04L5/00C6A H04L5/00C7 H04L5/00E H04W74/08 T04W28/04

US: 1/1 370/329 455/522



Family:

Publication number	Publication date	Application number	Application date
AU2011215301 AA	20110818	AU20110215301	20110208
AU2011215301 BB	20150521	AU20110215301	20110208
BR112012019784 A2	20160517	BR20121119784	20110208
CA2789364 AA	20110818	CA20112789364	20110208
CA2789364 C	20171121	CA20112789364	20110208
CN102754514 A	20121024	CN201180008705	20110208
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EP2536243 A1	20121219	EP20110742223	20110208
EP2536243 A4	20161123	EP20110742223	20110208
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JP2012105342 A2	20120531	JP20120004794	20120113
JP4912478 B2	20120411	JP20100026362	20100209
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US2013010722 AA	20130110	US20110577842	20110208
US2014185569 AA	20140703	US20140201365	20140307
US8705481 BB	20140422	US20110577842	20110208
US9379876 BB	20160628	US20140201365	20140307
WO11099479 A1	20110818	WO2011JP52629	20110208

Priority:

JP20100026362 20100209 JP20120004794 20120113 WO2011JP52629 20110208
US20120577842 20120906 US20140201365 20140307

Probable Assignee: SHARP KK

Assignee(s): (std): KATO YASUYUKI ; NAKASHIMA DAIICHIRO ; SHARP KK ; SUZUKI SHOICHI ; YAMADA SHOHEI

Assignee(s): SHARP CORP ; SHARP KABUSHIKI KAISHA

Inventor(s): (std): DAIICHIRO NAKASHIMA ; KATO YASUYUKI ; NAKAJIMA TAIICHIRO ; NAKASHIMA DAIICHIRO ; SHOHEI YAMADA ; SHOICHI SUZUKI ; SUZUKI SHOICHI ; YAMADA SHOHEI ; YASUYUKI KATO

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; G RONALD BELL AND ASSOCIATES; Müller - Hoffmann &, Partner; FUKAMI PATENT OFFICE PC; BIRCH STEWART KOLASCH AND BIRCH LLP; FUKAMI PATENT OFFICE P C

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 HW HN HR HU ID IE IL IN IS IT KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM 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: WIRELESS COMMUNICATION SYSTEM, BASE STATION APPARATUS, MOBILE STATION APPARATUS, WIRELESS COMMUNICATION METHOD AND INTEGRATED CIRCUIT

Abstract: Source: US2013044706A When a common search space and a user equipment-specific search space overlap with each other, and bit numbers of DCI formats transmitted in the common search space and the user equipment-specific search space, respectively are the same as each other, a mobile station apparatus identifies a type of the DCI format. When the common search space and the user equipment-specific search space overlap with each other, and a bit number of a DCI format allocated in the common search space and a bit number of a DCI format allocated in the user equipment-specific search space are the same as each other, a base station apparatus does not allocate the DCI format allocated in the user equipment-specific search space in the overlapped space, and a mobile station apparatus performs blind decoding only of the DCI format allocated in the common search space in the overlapped space.

Classifications:

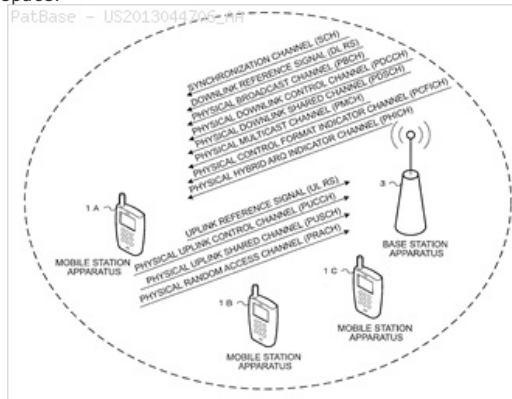
International (IPC 8-9): H04B7/26 H04J11/00 H04L5/00 H04L5/14 H04L5/16 H04W28/06 H04W72/04 (Advanced/Invention);

H04W88/02 H04W88/08 H04W88/12 (Advanced/Non-invention)

CPC: H04L5/001 H04L5/0037 H04L5/0053 H04W88/02 H04W88/08 H04W72/042 H04W88/12 H04L1/0038 H04L1/004

European: H04W72/04F4

US: 1/1 370/278 370/282 370/329 370/485



Family:

Publication number	Publication date	Application number	Application date
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TWI532394 B	20160501	TW20110107472	20110304
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US2014334412 AA	20141113	US20140338258	20140722
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Probable Assignee: SHARP KK

Assignee(s): (std): NAKASHIMA DAIICHIRO ; NOGAMI TOSHIZO ; SHARP KK ; SUZUKI SHOICHI

Assignee(s): SHARP CORP ; SHARP KABUSHIKI KAISHA

Inventor(s): (std): DAIICHIRO NAKASHIMA ; NAKAJIMA TAIICHIRO ; NAKASHIMA DAIICHIRO ; NOGAMI TOMOZO ; NOGAMI TOSHIZO ; SHOICHI SUZUKI ; SUZUKI SHOICHI ; TOSHIZO NOGAMI

Agent(s): Müller - Hoffmann &, Partner; MUELLER HOFFMANN AND PARTNER; BIRCH STEWART KOLASCH AND BIRCH LLP; FUKUCHI TAKEO

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 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: MOBILE STATION APPARATUS, BASE STATION APPARATUS, RADIO COMMUNICATION SYSTEM, RADIO COMMUNICATION METHOD, AND INTEGRATED CIRCUIT

Abstract: Source: US2013148593A In a radio communication system using OCC for DMRS, a base station apparatus correctly receives PUSCH. If a first mode is set in which a demodulation reference signal of a physical uplink shared channel is multiplied by an **orthogonal** code determined in advance or if a temporary C-RNTI was used for a transmission of downlink control information, the demodulation reference signal of the physical uplink shared channel is multiplied by the **orthogonal** code determined in advance, and if a second mode is set in which the demodulation reference signal of the physical uplink shared channel is multiplied by an **orthogonal** code determined on the basis of cyclic shift information in the downlink control information and moreover, if an RNTI other than the temporary C-RNTI was used for the transmission of the downlink control information, the demodulation reference signal of the physical uplink shared channel is multiplied by the **orthogonal** code determined on the basis of the cyclic shift information in the downlink control information.

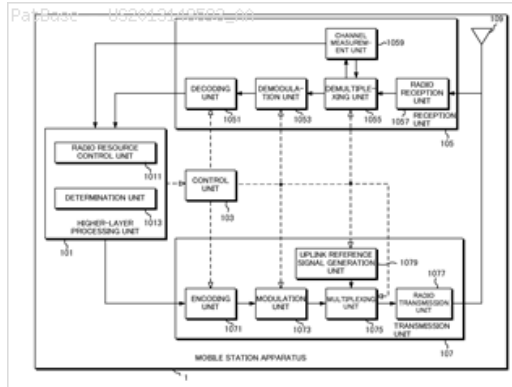
Classifications:

International (IPC 8-9): H04J1/00 H04J11/00 H04J13/18 H04L25/02 H04L27/00 H04L27/01 H04L5/00 H04W16/28 H04W72/04 H04W72/12 H04W88/00 (Advanced/Invention); H04J13/00 H04W74/08 H04W88/02 H04W88/08 (Advanced/Non-invention)

CPC: H04L5/0051 H04W88/08 H04L5/0091 H04L25/0224 H04W72/042 H04J13/0059 H04W72/1289 H04W74/0833 H04W88/02 H04L1/0027 H04L5/0048

European: H04W72/12F4

US: 1/1 370/252 370/280 370/328 370/329 370/349



Family:

Publication number	Publication date	Application number	Application date
AU2011259040 AA	201111201	AU20110259040	20110520
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MY163873 A	20171031	MY20120005090	20110520
TW201210231 A	20120301	TW20110118725	20110527
TWI499235 B	20150901	TW20110118725	20110527
US2013148593 AA	20130613	US20110700323	20110520
US2015063272 AA	20150305	US20140535531	20141107
US2016135153 AA	20160512	US20160996616	20160115
US2017048834 AA	20170216	US20160340041	20161101
US8902841 BB	20141202	US20110700323	20110520
US9271285 BB	20160223	US20140535531	20141107
US9516643 BB	20161206	US20160996616	20160115
WO11148876 A1	20111201	WO2011JP61679	20110520

Priority:

JP20100121258	20100527	JP20120027016	20100527	JP20120027016	20120210
JP20130241028	20131121	US20130700323	20130104	US20140535531	20141107
WO2011JP61679	20110520	US20160996616	20160115	US20160340041	20161101

Probable Assignee: SHARP KK

Assignee(s): (std): AKIMOTO YOSUKE ; SUZUKI SHOICHI ; SHARP KK

Assignee(s): SHARP CORP ; SHARP K K ; SHARP KABUSHIKI KAISHA

Inventor(s): (std): AKIMOTO YOSUKE ; SUZUKI SHOICHI

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; G RONALD BELL AND ASSOCIATES; MUELLER HOFFMANN AND PARTNER; KEATING AND BENNETT LLP; FUKUCHI TAKEO

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 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: MEGA COMMUNICATION AND MEDIA APPARATUS CONFIGURED TO PROVIDE FASTER DATA TRANSMISSION SPEED AND TO GENERATE ELECTRICAL ENERGY

Abstract: Source: US2012032876A Disclosed embodiments comprise communication apparatus operatively configured with CMOS multiple antennas disposed on a chip for boosting communication signals to and for enabling faster data transmission speed and to provide interactive user interface. The communication apparatus is further configured to convert sound waves, vibrations, solar energy, wind force and pressure force into electrical energy communicable to a battery cell. Disclosed embodiment encompasses three modes of communications-the Cell phone, wireless Internet applications, and Global communication and media information. Embodiments provide communication apparatus operable to enhance mobile communication efficiency with touch sensitive display and provide energy harvesting platform on at least the housing for the apparatus and/or the circuit board configured with memories, processors, and modules. Embodiments provide advanced computing and media applications, including in-vehicle interactive communications and wireless Internet applications. Embodiments further provide a gaming device, a wireless media device configured with touch pads comprising sensors being embedded in silicon substrate and fused in micro fiber material having excellent electrical characteristics. Certain embodiments provide communication apparatus configured for voice enabled applications comprising human voice auditory operable to convert text into voice auditory and/or voice auditory into text applications.

Classifications:

International (IPC 8-9): G09G5/00 H01Q1/22 H01Q1/24 H01Q11/12 H01Q21/28 H04B1/3827 H04M1/00 H04M1/02 H04M1/60 H04M1/725 H04W52/04 H04W88/02 (Advanced/Invention);

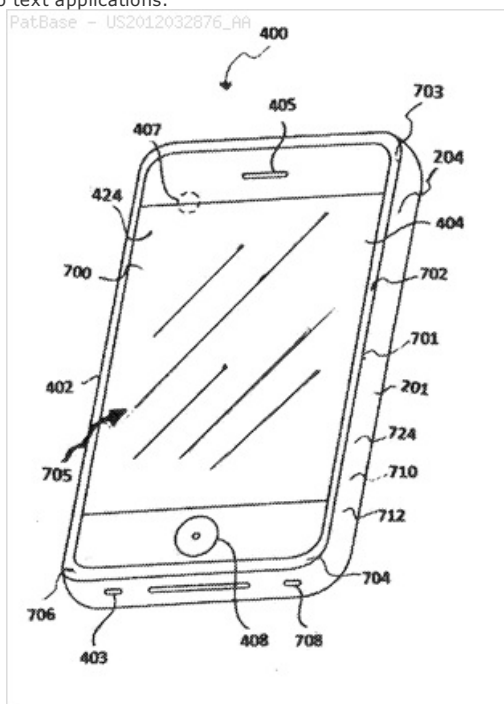
H04B1/3827 H04W88/02 (Advanced/Non-invention)

CPC: H01Q1/2283 H01Q1/243 H01Q1/245 H01Q21/28 H04W88/02 H04M1/0202 H04B1/3838 H04M1/00 H04M1/0214 H04M1/0235 H04M1/6083 H04M1/72522 H04M1/72536 H04M1/72558

H04M2250/10 H04M2250/12 H04M2250/22 H04W52/04 Y02B60/50

European: H04B1/38P2E H04M1/02A H04M1/60T2C2 H04M1/725F1 T04B1/38P2E T04M1/02A2B4 T04M1/02A2B8 T04M1/725F1E T04M1/725F1P T04M250/10 T04M250/12 T04M250/22 T04W88/02

US: 1/1 345/156 345/156P 455/127.1 455/127.100S 455/550.1 455/550.100S 455/566 455/566P 455/571 455/571S 455/572 455/572S



Family:

Publication number	Publication date	Application number	Application date
US2012032876 AA	20120209	US20100910833	20101024
US2012034954 AA	20120209	US20100852481	20100807
US9130651 BB	20150908	US20100910833	20101024
US9237211 BB	20160112	US20100852481	20100807

Priority:

US20100852481 20100807 US20100910833 20101024

Probable Assignee:

TABE JOSEPH AKWO

Assignee(s): (std):

TABE JOSEPH AKWO

Inventor(s): (std):

TABE JOSEPH AKWO

Agent(s):

JOSEPH

Title: METHOD AND APPARATUS FOR CONFIGURING POWER HEADROOM INFORMATION IN MOBILE COMMUNICATION SYSTEM SUPPORTING CARRIER AGGREGATION

Abstract: Source: US2012040707A A method and apparatus for configuring Power Headroom Report (PHR) of a User Equipment (UE) efficiently in a mobile communication system supporting carrier aggregation are provided. The method includes generating a header including a LCID for identifying extended PHR and L indicating a length of the extended PHR, and inserting Power Headrooms (PHs) of multiple activated carriers into the extended PHR of one of the carriers.

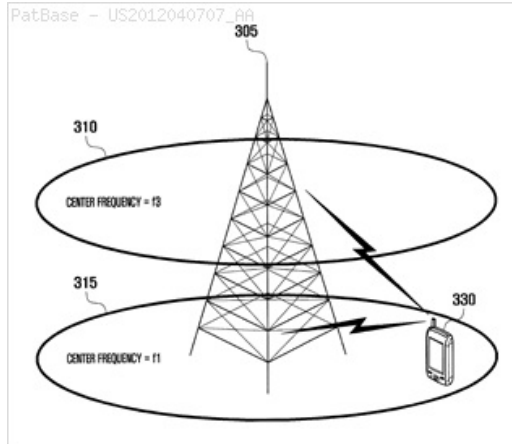
Classifications:

International (IPC 8-9): H04B7/00 H04B7/06 H04B7/185 H04B7/204 H04B7/208 H04B7/26 H04J1/00 H04J11/00 H04L1/00 H04L12/24 H04L12/26 H04L12/28 H04L12/751 H04L12/801 H04L27/26 H04L5/00 H04W24/00 H04W24/02 H04W24/10 H04W28/04 H04W28/06 H04W4/00 H04W48/12 H04W52/00 H04W52/04 H04W52/06 H04W52/14 H04W52/16 H04W52/18 H04W52/24 H04W52/28 H04W52/30 H04W52/34 H04W52/36 H04W52/38 H04W52/54 H04W52/58 H04W72/00 H04W72/04 H04W72/08 H04W72/12 H04W74/00 H04W74/08 H04W76/06 H04W80/04 H04W88/02 H04W88/06 (Advanced/Invention);

H04L5/00 H04W24/02 H04W52/14 H04W52/34 H04W52/38 H04W72/00 H04W72/04 H04W72/12 H04W84/04 H04W88/02 H04W88/08 (Advanced/Non-invention)

CPC: H04L5/006 H04W52/281 H04L5/0053 H04L5/003 H04W72/0426 H04W88/08 H04B7/0626 H04W88/02 H04W52/18 H04J11/00 H04W72/0406 H04W72/1278 H04W72/04 H04L1/0026 H04L1/0027 H04L5/0073 H04W52/38 H04W52/242 H04W72/0473 H04W72/0453 H04W52/58 H04W52/04 H04W84/045 H04L5/0098 H04W52/365 H04W52/146 H04W52/34 H04W72/1247 H04W72/1284 H04W74/0833 H04W24/10 H04W52/14 H04W52/30 H04W52/143 H04W52/367 H04W76/066 H04W72/1226 H04L5/005 H04W72/085 H04L5/001 Y02B60/50 H04W52/346 H04W74/08 H04L5/0032 H04L5/0085 H04W72/042 H04L5/0057 H04W72/00 H04W24/02 H04L5/0048 H04W72/0413

European: H04L5/00A2A11 H04L5/00C H04L5/00E3A H04W24/10 H04W52/36H H04W52/36K H04W72/04F4 H04W74/08D T04L5/00A2A11 T04L5/00C7A T04W24/02 T04W52/14U T04W72/00 T04W72/04F2 T04W72/04N T04W72/12B8 T04W72/12F2
US: 1/1 370/241 370/248 370/248P 370/252 370/252P 370/254 370/328 370/328P 370/329 370/329P 370/329S 455/423 455/509 455/522 455/522P 455/67.11

**Family:**

Publication number	Publication date	Application number	Application date
AU2011314509 AA	20120419	AU20110314509	20111012
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CN103069732 A	20130424	CN201180039225	20110810
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US20160137636	20160425	US20170618643	20170609		

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): CHO JOON YOUNG ; JANG JAE HYUK ; JEONG KYEONG IN ; KIM SANG BUM ; KIM SOENG HUN ; SAMSUNG ELECTRONICS CO LTD ; VAN LIESHOUT GERT JAN ; NG BOON LOONG

Assignee(s): SAMSUNG ELEKTRONIKS KO ; SAMSUNG ELECTRONICS CO

Inventor(s): (std): GERT YANG VAN LIESHOUT ; JEONG KYEONG IN ; KIM SANG BUM ; KIM SOENG HUN ; LEE JUNG WOONG ; LIESHOUT GERT JAN VAN ; VAN LIESHOUT GERT JAN ; VAN LISKHAUT GERT JAN ; KIM SOENG KHUN ; GERT JAN VAN LIESHOUT ; DZEONG KIEONG IN ; BOON LOONG NG ; NG BOON LOONG ; JANG JAE HYUK ; CHO JOON YOUNG

Agent(s): GRIFFITH HACK; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAUESSER; HUTTER JACOBUS JOHANNES; NEDERLANDSCH OCTROOIBUREAU; JEFFERSON IP LAW LLP; YOON DONG YOL

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

Title: GENERATION OF HARQ-ACK INFORMATION AND POWER CONTROL OF HARQ-ACK SIGNALS IN TDD SYSTEMS WITH DOWNLINK OF CARRIER AGGREGATION

Abstract: Source: US2012106407A Methods and apparatus are provided for a User Equipment (UE) configured to have multiple cells in a DownLink (DL) of a Time Division Duplex (TDD) communication system so as to determine a power of an acknowledgement signal that the UE transmits in a control channel and to determine a number of acknowledgement information bits that the UE **multiplexes** with data information bits in a data channel. A transmission power of the control signal is determined based on DL Assignment Index (DAI) Information Elements (IEs) in DL Scheduling Assignments (SAs) that the UE detects through multiple transmission time intervals and through the multiple configured DL cells. The number of acknowledgement information bits in the data channel is determined based on a DAI IE of an UpLink (UL) SA associated with the transmission of the data channel.

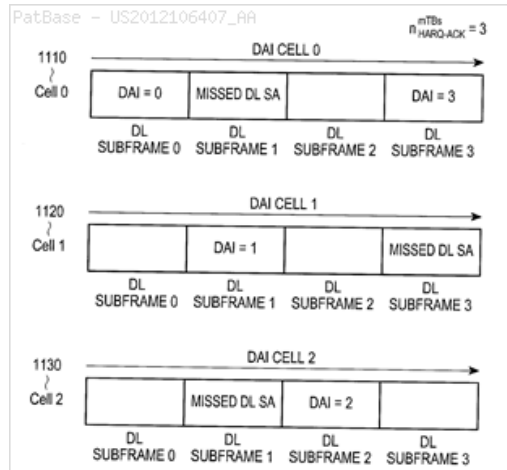
Classifications:

International (IPC 8-9): H04B7/26 H04J1/00 H04J11/00 H04J13/16 H04J3/00 H04J3/02 H04J3/10 H04L1/16 H04L1/18 H04L27/01 H04L27/26 H04L5/00 H04L5/14 H04Q7/00 H04W28/04 H04W52/04 H04W52/14 H04W52/18 H04W52/20 H04W52/32 H04W52/40 H04W52/48 H04W72/04 (Advanced/Invention); H04L5/00 H04W52/14 H04W52/20 H04W52/40 (Advanced/Non-invention); H04L (Subclass/Invention)

CPC: H04L5/0055 H04L5/14 H04W72/04 H04W72/0413 H04L1/1614 H04L1/1861 H04W72/042 H04J3/00 H04L5/001 H04L5/0053 H04L5/0091 H04W52/146 H04W52/20 H04W52/325 H04W52/40 H04L5/1469 H04W52/18

European: H04L1/16F1 H04L1/18R11 H04L5/00A2A11 H04L5/00C6 H04L5/00C6A H04L5/00E H04W52/32C T04W52/14U T04W52/20 T04W52/40

US: 1/1 370/252 370/280 370/280P 370/328 370/329 370/336 370/338 455/522

**Family:**

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Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): CHO JOON YOUNG ; PAPASAKELLARIOU ARIS ; SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO LTD SUWON SI ; SAMSUNG ELEKTRONIKS KO ; SAMSUNG ELECTRONICS CO

Inventor(s): (std): ZHAO JUNYING ; PAPASAKELLARIOU ARIS ; CHO JOON YOUNG ; CHO DZOON JANG ; ARIS PAPASAKELLARIOU

Agent(s): GRIFFITH HACK; MARKS AND CLERK; GULDE AND PARTNER PATENT U RECHTSANWALTSKANZLEI MBB; HUTTER JACOBUS JOHANNES; NEDERLANDSCH OCTROOIBUREAU; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER; CARPINTERO MARIO; JEFFERSON IP LAW LLP; FARRELL LAW FIRM PC; LEE KEON JOO

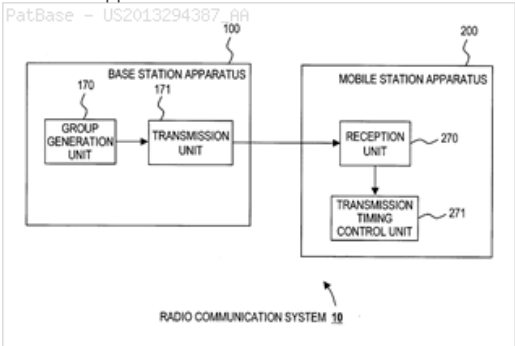
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Title: BASE STATION APPARATUS, MOBILE STATION APPARATUS, RADIO COMMUNICATION METHOD, AND RADIO COMMUNICATION SYSTEM

Abstract: Source: US2013294387A A base station apparatus for performing radio communication with a mobile station apparatus, the base station apparatus includes: a group generation unit which groups a plurality of mobile station apparatuses controllable with a same control amount of transmission timing; and a transmission unit which transmits the control amount of transmission timing to the grouped plurality of mobile station apparatuses.

Classifications:

International (IPC 8-9): H04L1/00 H04W4/04 H04W56/00
H04W72/12 (Advanced/Invention)
CPC: H04W72/1289 H04W56/0045 H04W56/00 H04B7/2662
H04L7/00
European: H04W56/00D2
US: 1/1 370/329



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Priority:

US20130938814 20130710 WO2011JP51565 20110127

Probable Assignee: FUJITSU LTD

Assignee(s): (std): FUJITSU LTD ; TANAKA YOSHINORI ; FUJITSUI LTD

Assignee(s): FUJITSU LIMITED

Inventor(s): (std): TANAKA YOSHINORI

Agent(s): LEWIN DAVID NICHOLAS; HAYASHI TSUNENORI; DOI KENJI; MYERS WOLIN LLC; HAYASHI TSUNENORI 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: METHOD FOR WIRELESS DATA TRANSMISSION, COMMUNICATION SYSTEM, WIRELESS TERMINAL APPARATUS AND WIRELESS BASE STATION APPARATUS

Abstract: Source: US2013294388A A method for radio data transmission in a radio communication system including a radio terminal apparatus and a radio base station apparatus, the method including, transmitting, by the radio base station apparatus, data and a signal indicating radio resource to be used for random access to an asynchronous radio terminal apparatus not synchronized with the radio base station apparatus on an uplink, and transmitting, by the asynchronous radio terminal apparatus to the radio base station apparatus via a random access channel, a reply signal generated based on whether or not the data has been correctly received and on a signal received from the radio base station apparatus and indicating the radio resource.

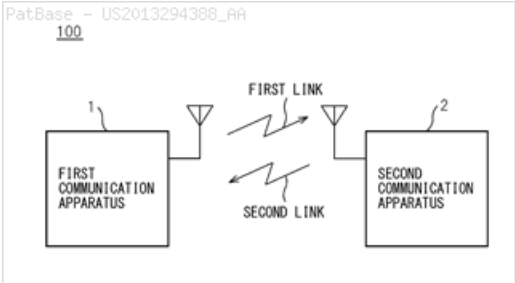
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International (IPC 8-9): H04B7/26 H04L1/16 H04W28/04 H04W56/00 H04W72/04 H04W74/08 H04W88/08 (Advanced/Invention)

CPC: H04W72/04 H04W56/001 H04L1/0045 H04L1/1829 H04W74/0833 H04W74/08 H04W56/004 H04W74/0866 H04W88/08

European: H04L1/00B5 H04L1/18R H04W74/08D T04W28/04

US: 370/329 370/350



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WO12108045 A1	20120816	WO2011JP52916	20110210

Priority:

US20130940030 20130711 WO2011JP52916 20110210

Probable Assignee: FUJITSU LTD

Assignee(s): (std): FUJITSU LTD ; OHTA YOSHIAKI ; KAWASAKI YOSHIHIRO ; FUJITSUI LTD

Assignee(s): FUJITSU LIMITED

Inventor(s): (std): KAWASAKI YOSHIHIRO ; OHTA YOSHIAKI ; OTA YOSHIAKI

Agent(s): LEWIN DAVID NICHOLAS; AOKI ATSUSHI; HIGUCHI SOTOJI; AOKI ATSUSHI 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: TERMINAL, BASE STATION, COMMUNICATION SYSTEM, AND COMMUNICATION METHOD

Abstract: Source: US2014044088A There is provided a terminal for performing OFDM (**Orthogonal Multiplexing**) communication with a base station forming a cell. The terminal includes a control channel processing unit configured to monitor, in a sub-frame, a first control channel in a cell-specific search space that is a search space common within the cell, and a first control channel in a UE-specific search space that is a search space specific to the terminal. In a case where monitoring of a second control channel different from the first control channel that is in the cell-specific search space or the UE-specific search space is configured, the control channel processing unit monitors, in a sub-frame, at least both the first control channel in the cell-specific search space and the second control channel in the UE-specific search space.

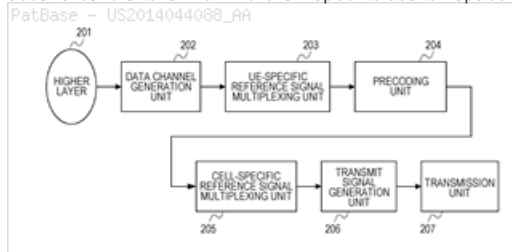
Classifications:

International (IPC 8-9): H04B7/04 H04J11/00 H04L1/00 H04L5/00 H04Q7/00 H04W24/00 H04W40/24 H04W48/08 H04W72/04 H04W74/00 H04W74/08 (Advanced/Invention); H04L5/00 (Advanced/Non-invention)

CPC: H04W40/24 H04J11/0069 H04L1/0046 H04L5/0048 H04L5/0051 H04L5/0053 H04L5/0073 H04L5/0094 H04W24/00 H04W72/042 H04L5/001 H04L5/0035 H04W74/004

European: H04J11/00J H04L5/00C6 H04W24/00 T04L5/00A2A11 T04L5/00C1B T04L5/00C5 T04L5/00C7H

US: 370/329



Family:

Publication number	Publication date	Application number	Application date
CN103493578 A	20140101	CN201280020369	20120419
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US2017048832 AA	20170216	US20160337276	20161028
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Priority:

JP20110099258 20110427 US20130113872 20131025 WO2012JP60546 20120419
US20160337276 20161028

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Assignee(s): SHARP CORP ; SHARP KABUSHIK KAISHA ; SHARP KABUSHIKI KAISHA

Inventor(s): (std): IMAMURA KIMIHIKO ; NAKAJIMA TAIICHIRO ; NAKASHIMA DAIICHIRO ; NOGAMI TOMOZO ; NOGAMI TOSHIZO ; SHIMEZAWA KAZUYUKI ; SHISAWA TOSHIYUKI

Agent(s): MUELLER HOFFMANN AND PARTNER; KEATING AND BENNETT LLP; FUKAMI PATENT OFFICE P C

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 LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: COMMUNICATION STATE TRANSITIONING CONTROL

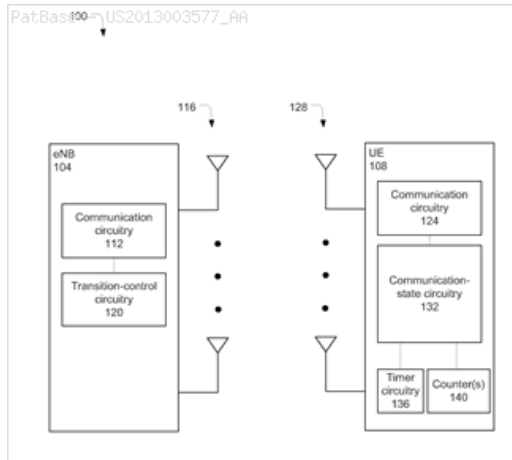
Abstract: Source: US2013003577A Embodiments of the present disclosure describe devices, methods, computer-readable media and systems configurations for managing state transitions of communication circuitries in wireless networks. Embodiments manage radio resource control (RRC) state transitions and/or discontinuous reception (DRX) state transitions. Other embodiments may be described and/or claimed.

Classifications:

International (IPC 8-9): G06F12/02 G06F15/16 G06F3/06 G06F9/44 G08B21/00 G08C17/00 G11C16/02 H04B1/38 H04B15/00 H04B15/02 H04B7/00 H04B7/005 H04B7/02 H04B7/024 H04B7/04 H04B7/0413 H04B7/0417 H04B7/0456 H04B7/06 H04B7/26 H04H20/71 H04J H04J11/00 H04J3/00 H04J99/00 H04L1/00 H04L1/06 H04L12/18 H04L12/70 H04L12/709 H04L12/891 H04L25/02 H04L27/26 H04L27/34 H04L27/36 H04L29/06 H04L29/08 H04L5/00 H04L5/14 H04M11/08 H04W16/02 H04W16/16 H04W24/00 H04W24/08 H04W28/04 H04W28/06 H04W28/10 H04W36/00 H04W36/14 H04W36/16 H04W4/00 H04W4/06 H04W4/08 H04W4/14 H04W4/18 H04W48/00 H04W48/12 H04W48/16 H04W48/18 H04W52/00 H04W52/02 H04W52/04 H04W52/10 H04W52/14 H04W52/24 H04W52/32 H04W52/36 H04W52/46 H04W52/54 H04W60/00 H04W68/00 H04W68/02 H04W72/00 H04W72/02 H04W72/04 H04W72/06 H04W72/08 H04W72/10 H04W72/12 H04W76/00 H04W76/02 H04W76/04 H04W76/06 H04W8/00 H04W8/02 H04W8/08 H04W8/18 H04W80/00 H04W80/02 H04W80/08 H04W80/10 H04W84/04 H04W88/02 H04W88/06 H04W88/08 H04W92/02 H04W92/10 H04W92/14 H04W92/20 (Advanced/Invention); H04L1/00 H04L12/18 H04L25/02 H04L27/36 H04W24/08 H04W28/10 H04W36/14 H04W48/12 H04W52/24 H04W52/32 H04W52/36 H04W52/54 H04W84/04 (Advanced/Non-invention); H04B H04J H04L H04W (Subclass/Invention)

CPC: G06F12/0246 H04W52/0235 H04W72/04 H04L47/41 H04B15/00 H04W24/00 G06F2212/7205 H04L5/0053 H04W4/08 H04W52/0212 H04W52/0258 H04W52/0209 H04W76/046 H04L5/14 H04W72/02 H04B7/0697 G06F3/0625 G06F3/0659 G06F3/0679 H04W52/0251 H04L1/0025 H04L1/0041 H04L1/0045 H04L1/06 H04L27/362 H04W76/028 H04W52/0225 H04L27/34 Y02B60/1246 H04L65/1006 H04W88/02 H04W92/10 H04B7/0613 H04L25/0204 H04L45/245 H04W28/10 H04W48/18 H04W76/02 H04W72/1294 H04J11/0023 H04J2211/005 H04B7/2603 H04W76/002 H04W84/042 H04L12/18 H04W36/0005 H04W48/16 H04W36/14 H04W36/165 H04W52/0216 H04L12/1863 H04W4/005 H04W8/02 H04W52/244 H04W48/12 H04W52/365 H04W72/0426 H04W72/082 H04W72/1278 H04B7/0615 H04W52/54 H04L1/0038 H04W52/143 H04W52/325 H04W52/04 H04B7/0619 H04L5/0032 H04L5/0037 H04L12/189 H04W28/042 H04W72/005 H04W52/0206 H04W88/06 Y02B60/50 H04W76/064 H04W24/08 H04W92/02 H04B7/024 H04B7/0417 H04B7/0456 H04W72/0446 H04W52/0222 H04W52/146 H04W52/242 H04W76/048 H04W72/042 H04W72/1215 H04L65/1016 H04L65/105 H04L65/1069 H04L65/80 H04L67/02 H04N21/23439 H04N21/6131 H04N21/64707 H04N21/8456 H04W4/06 H04W56/00

US: 1/1 370/252 370/254 370/280 370/281 370/311 370/312 370/328 370/329 370/330 370/390 375/219 375/261 375/267 375/295 375/298 375/300 375/305 375/320 455/422.1 455/436 455/450 455/452.1 455/466 455/517 455/73 709/217 711/103

**Family:**

Publication number	Publication date	Application number	Application date
AU2011372512 AA	20130110	AU20110372512	20111220
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Priority:

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US20170582354	20170428	US20140994113	20140113		

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Inventor(s): (std): A KE ; ALEXEY KHORYAEV ; ALI KOC ; ANDREY CHERVYAKOV ; BASHAR SHAFI ; CHATTERJEE DEBDEEP ; CHEN XIAOGANG ; CHZHAN YUDZYAN ; DZHAIJN PUNEET K ; ETEMAD KAMRAN ; ETHEMAD CAM RANH ; FIRAG ABDULLA ; FU JIN ; FWU JONG KAE ; GERHARD SCHROM ; GUO XIN ; GUPTA

MARUTI ; H NIU ; JAIN PUNEET ; JAIN PUNEET K ; KAMRAN ETEMAD ; KOC ALI ; KOC ALI T ; KOC ALI TAHA ; KOC ALL TAHA ; KOK ALI ; LI QINGHUA ; MARUTI GUPTA ; MIKHAIL SHILVO ; MUTHAIAH VENKATACHALAM ; NIU HUANING ; PANGAL KIRAN ; PAPATHANASSIOU APOSTOLOS ; PENG YUEFENG ; PUNEET K JAIN ; R YANG ; RATH VANNITHAMBY ; RAVI SANKAR VUNNAM ; RUBY PAUL D ; SERGEY PANTELEEV ; SHAFI MANSOOR ; SHIRANI MEHR HOOMAN ; SMITH PETER J ; VAN SHAO CHEHN ; VANNITAMBI RAT ; VANNITHAMBY RATH ; VENKATACHALAM MUTHAIAH ; VENKATACHALAM MUTKHAIAKH ; VUNNAM RAVI SANKAR ; WANG SHAO CHENG ; YANG RONGZHEN ; YANG XIANGYING ; YIN HUJUN ; YUJIAN ZHANG ; ZHANG YUJIAN ; ZHU FENG ; ZHU YUAN ; SCHROM GERHARD ; LI TSINKHUA ; HE HONG ; FONG MO HAN ; ETEMAD KAMRAN ; CHZHU JUAN ; CHEHN SJAOGAN ; ZHU LONGCHENG ; ZHU JING ; ZHANG YULAN ; Y ZHANG ; WANG SHAOCHENG ; VAN SHAO CHEN ; SIROTKIN ALEXANDER ; SHILVO MIKHAIL ; SHILOV MIKHAIL ; PANTELEEV SERGEY ; KHORYAEV ALEXEY ; HUANING NIU ; FU ZHONGKAI ; EHEMAD KAMRAN ; DAVYDOV ALEXEI ; CHZHAN JUDZJAN ; CHOU JOEY ; CHERVYAKOV ANDREY ; BOLOTIN ILYA ; ZHANG YUIJAN ; YUAN ZHU ; XIAOGANG CHEN ; OYMAN OZGUR ; OJMAN OZGUR ; MOROZOV GREGORY ; MALTSEV ALEXANDER ; M FENG ; VANITAMBI RAT ; QINGHUA LI ; KOK ALI TAKHA ; DZHAJN PUNEET

Inventor(s):

KOC ALI HILLSBORO ; GUPTA MARUTI PORTLAND ; LI QINGHUA SAN RAMON ; VANNITHAMBY RATH PORTLAND ; OYMAN OZGUR SAN JOSECA ; CHOU JOEY SCOTTSDALE ; FWU JONG KAE SUNNYVALE ; KOC ALL TAHA HILLSBORO ; JAIN PUNEET HILLSBORO ; NIU HUANING MILPITAS

Agent(s):

FISHER ADAMS KELLY PTY LTD; FISHER ADAMS KELLY CALLINANS; SMART AND BIGGAR; RICHES MCKENZIE AND HERBERT LLP; HUFTON DAVID ALAN; JENNINGS VINCENT LOUIS; HGF LTD; ISERN JORGE; LEHMANN MARIA ISABEL; DR BELINDA ROSALINA SH LLM; EITAN MEHULAL AND SADOT; OHNUKI SHINSUKE; ITOH TADAHIKO; ITOH TADASHIGE; RYUKA IP LAW FIRM; SCHWABE WILLIAMSON AND WYATT PC; ALPINE TECHNOLOGY LAW GROUP LLC; THORPE NORTH AND WESTERN LLP; SCHWEGMAN LUNDBERG AND WOESSNER PA; BLAKELY SOKOLOFF TAYLOR AND ZAFMAN LLP; THORPE NORTH AND WESTERN; MAKI NATHAN R; BURRELL CHARLES A; MADDEN ROBERT B ET AL; HAYMOND ALEX W; KACVINSKY JOHN F; MCCRACKIN ANN M ET AL; TROP TIMOTHY N; CHINA PATENT AGENT; COOL KENNETH ET AL; COOL KENNETH J ET AL; OSBORNE DAVID W ET AL; KACVINSKY JOHN F ET AL; PARKER WESLEY E ET AL

Designated states:

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

Title: DTV SYSTEMS EMPLOYING PARALLEL CONCATENATED CODING IN COFDM TRANSMISSIONS FOR ITERATIVE DIVERSITY RECEPTION

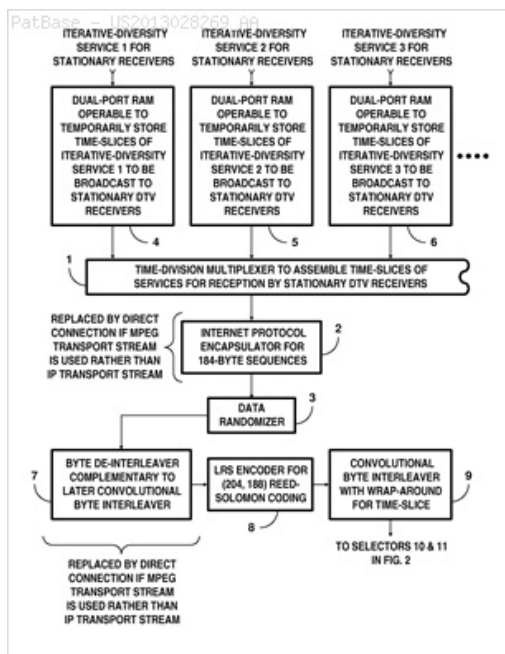
Abstract: Source: US2013028269A A digital television (DTV) system uses parallel concatenated coding (PCC), together with QAM constellations for modulating OFDM carriers. A first encoder responds to bits of randomized data to generate a first component of parallel concatenated coding. A second encoder responds to delayed bits of the randomized data to generate a second component of parallel concatenated coding. A constellation mapper generates QAM symbols responsive to successive time-slices of the first component of the PCC interleaved with successive time-slices of the second component of the PCC. An OFDM modulator generates a COFDM modulating signal responsive to the QAM symbols. In a receiver for the DTV system, the second component of the PCC and delayed first component of the PCC are iteratively decoded. Corresponding soft bits from the second component and delayed first component of the PCC are combined to supply soft randomized data used in that iterative decoding.

Classifications:

International (IPC 8-9): H04J13/00 H04L1/00 H04L25/00 H04L27/01 H04L27/06 H04L27/28 H04L27/36 H04L29/00 H04N11/02 H04N11/04 H04N21/438 H04N21/61 H04N21/643 H04N7/12 H04N7/26 (Advanced/Invention); H04L25/03 H04L27/26 (Advanced/Non-invention)

CPC: H04H20/67 H04N21/2383 H04L27/2627 H04L27/2649 H04L27/34 H04N21/41407 H03M13/09 H03M13/1515 H03M13/27 H03M13/2732 H03M13/2918 H03M13/2921 H03M13/2957 H03M13/2966 H03M13/2972 H03M13/31 H04L1/005 H04L1/0057 H04L1/0066 H04L1/0071 H04L25/00 H04L25/03203 H04L25/03318 H04L27/2647 H04L2001/0093 H04N21/4382 H04N21/6112 H04N21/6131 H04N21/64322

US: 1/1 370/474 370/479 375/240.27 375/298 375/340 375/E7.279

**Family:**

Publication number	Publication date	Application number	Application date
US2013028269 AA	20130131	US20120524614	20120615
US2013028271 AA	20130131	US20120615697	20120914
US2013028336 AA	20130131	US20120555114	20120816
US9124396 BB	20150901	US20120615697	20120914

Priority:

US20110574138P 20110728	US20110574640P 20110806	US20110575179P 20110816
US20110627495P 20111013	US20110628832P 20111107	US20110626437P 20110927
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Probable Assignee:

LIMBERG ALLEN LEROY

Assignee(s): (std):

LIMBERG ALLEN LEROY

Inventor(s): (std):

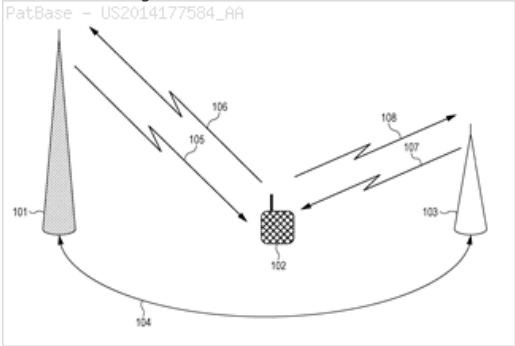
LIMBERG ALLEN LEROY

Title: TERMINAL, COMMUNICATION SYSTEM, AND COMMUNICATION METHOD

Abstract: Source: US2014177584A A base station, a terminal, a communication system and a communication method are provided. The communication system comprises a base station 101 and a terminal 102 in communication with the base station 101. The base station 101 notifies the terminal 102 of control information efficiently. The terminal 102 comprises a receiver 605 configured to receive information related to a first measurement target configuration and information related to a second measurement target configuration, and a transmission power controller configured to configure a first path loss and first uplink transmission power in accordance with a first measurement target, and configured to configure a second path loss and second uplink transmission power in accordance with a second measurement target.

Classifications:

International (IPC 8-9): H04J11/00 H04J99/00 H04W28/16
H04W52/14 H04W52/18 H04W52/24 H04W72/04 (Advanced/Invention);
H04W24/10 (Advanced/Non-invention)
CPC: H04W52/18 H04W24/10 H04W52/146 H04W52/242
US: 370/329



Family:

Publication number	Publication date	Application number	Application date
CN103814610 A	20140521	CN201280038392	20120802
EP2741550 A1	20140611	EP20120820212	20120802
EP2741550 A4	20150218	EP20120820212	20120802
EP2741550 B1	20170705	EP20120820212	20120802
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JP5927801 B2	20160601	JP20110169318	20110802
US2014177584 AA	20140626	US20120236541	20120802
US9801143 BB	20171024	US20120236541	20120802
WO13018856 A1	20130207	WO2012JP69672	20120802

Priority:

JP20110169318 20110802 WO2012JP69672 20120802

Probable Assignee: SHARP KK

Assignee(s): (std): AKIMOTO YOSUKE ; IMAMURA KIMIHIKO ; NOGAMI TOSHIZO ; NAKASHIMA DAIICHIRO ; KATO YASUYUKI ; OUCHI WATARU ; SHARP KK ; UEMURA KATSUNARI ; SUZUKI SHOICHI ; SHIMEZAWA KAZUYUKI

Assignee(s): SHARP KABUSHIKI KAISHA ; SHARP CORP ; SHARP KABUSHIK KAISHA

Inventor(s): (std): AKIMOTO YOSUKE ; IMAMURA KIMIHIKO ; KAMIMURA KATSUNARI ; KATO YASUYUKI ; NAKAJIMA TAIICHIRO ; NAKASHIMA DAIICHIRO ; NOGAMI TOMOZO ; NOGAMI TOSHIZO ; OUCHI WATARU ; SHIMEZAWA KAZUYUKI ; SHISAWA TOSHIYUKI ; SUZUKI SHOICHI ; UEMURA KATSUNARI

Agent(s): MUELLER HOFFMANN AND PARTNER; BIRCH STEWART KOLASCH AND BIRCH LLP; FUKUCHI TAKEO

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

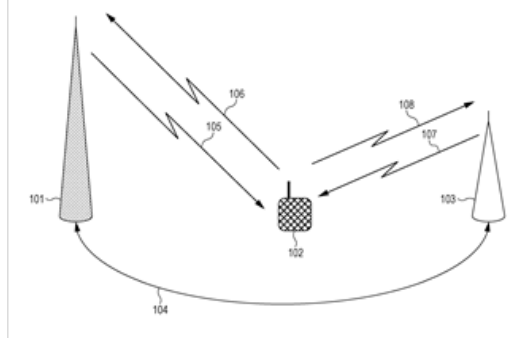
Title: TERMINAL APPARATUS, COMMUNICATION SYSTEM, COMMUNICATION METHOD, AND BASE STATION APPARATUS

Abstract: Source: US2014226551A In a communication system in which a base station apparatus and a terminal apparatus communicate with each other, a base station apparatus, a terminal apparatus, and a communication system with which the base station apparatus and the terminal apparatus can efficiently communicate with each other are provided. The terminal apparatus that communicates with the base station apparatus includes a radio resource control section 6011 that sets a first uplink power control-related parameter configuration and a second uplink power control-related parameter configuration in accordance with information included in a radio resource control (RRC) signal, a reception unit 605 that determines a type of downlink control information (DCI) format, a transmission power control section 6015 that sets uplink transmission power on the basis of the first uplink power control-related parameter configuration or the second uplink power control-related parameter configuration, and a transmission unit 607 that transmits an uplink signal with the set uplink transmission power.

Classifications:

International (IPC 8-9): H04J11/00 H04J13/00 H04W52/04
H04W52/14 H04W52/16 H04W52/24 H04W52/32 H04W52/40
H04W52/54 H04W72/04 (Advanced/Invention);
H04W52/14 H04W52/24 (Advanced/Non-invention)
CPC: H04W72/0473 H04W72/0406 H04W52/04 H04W52/146
H04W52/244 H04W52/247 H04W52/325 H04W52/40 H04W52/54
US: 370/311

PatBase - US2014226551_AA



Family:

Publication number	Publication date	Application number	Application date
CN103843422 A	20140604	CN201280047823	20120905
EP2763470 A1	20140806	EP20120835413	20120905
EP2763470 A4	20150805	EP20120835413	20120905
EP2763470 B1	20171108	EP20120835413	20120905
JP2013077926 A2	20130425	JP20110215784	20110930
JP5813444 B2	20151117	JP20110215784	20110930
US2014226551 AA	20140814	US20120348270	20120905
US9516650 BB	20161206	US20120348270	20120905
WO13047129 A1	20130404	WO2012JP72614	20120905

Priority:

JP20110215784 20110930 WO2012JP72614 20120905

Probable Assignee: SHARP KK

Assignee(s): (std): IMAMURA KIMIHIKO ; KATO YASUYUKI ; NAKASHIMA DAIICHIRO ; NOGAMI TOSHIZO ; SHARP KK ; UEMURA KATSUNARI ; SUZUKI SHOICHI ; SHIMEZAWA KAZUYUKI ; OUCHI WATARU

Assignee(s): SHARP KABUSHIKI KAISHA ; SHARP CORP ; SHARP KABUSHIK KAISHA

Inventor(s): (std): IMAMURA KIMIHIKO ; KAMIMURA KATSUNARI ; KATO YASUYUKI ; NAKAJIMA TAIICHIRO ; NAKASHIMA DAIICHIRO ; NOGAMI TOMOZO ; NOGAMI TOSHIZO ; OUCHI WATARU ; SHIMEZAWA KAZUYUKI ; SHISAWA TOSHIYUKI ; SUZUKI SHOICHI ; UEMURA KATSUNARI

Agent(s): MUELLER BORE AND PARTNER PATENTANWAELE PARTG MBB; KEATING AND BENNETT LLP; FUKUCHI TAKEO

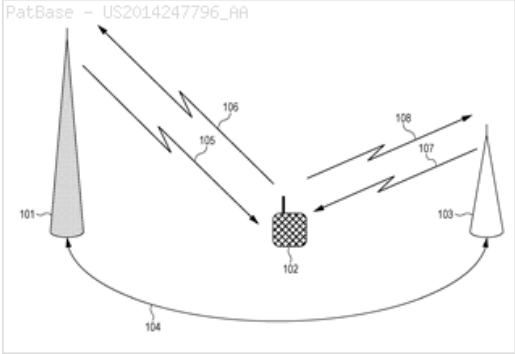
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Title: TERMINAL APPARATUS, COMMUNICATION SYSTEM, BASE STATION APPARATUS, AND COMMUNICATION METHOD

Abstract: Source: US2014247796A In a communication system in which a base station apparatus and a terminal apparatus communicate with each other, a base station apparatus, a terminal apparatus, and a communication system with which the base station apparatus and the terminal apparatus can efficiently communicate with each other are provided. The terminal apparatus that communicates with the base station apparatus includes a radio resource control section 6011 that configures a plurality of uplink physical channels and that configures an uplink power control-related parameter for each of the plurality of uplink physical channels in accordance with information included in a radio resource control (RRC) signal and a transmission power control section 6015 that sets transmission power of the uplink physical channels on the basis of the uplink power control-related parameters.

Classifications:

International (IPC 8-9): H04J11/00 H04J13/00 H04J3/00 H04J99/00
H04L5/00 H04W16/14 H04W16/28 H04W28/16 H04W52/08
H04W52/14 H04W52/18 H04W52/22 H04W52/24
H04W52/40 (Advanced/Invention);
H04B1/707 H04J13/00 H04L27/26 H04L5/00
H04W52/14 (Advanced/Non-invention)
CPC: H04L5/0053 H04W52/18 H04B1/707 H04J13/0048 H04L5/001
H04L27/2601 H04W52/146 H04W52/242 H04W52/40
US: 370/329



Family:

Publication number	Publication date	Application number	Application date
CN103843423 A	20140604	CN201280047843	20120905
EP2763471 A1	20140806	EP20120837425	20120905
EP2763471 A4	20150422	EP20120837425	20120905
JP2013085233 A2	20130509	JP20120213951	20120927
US2014247796 AA	20140904	US20120348163	20120905
US9794887 BB	20171017	US20120348163	20120905
WO13047130 A1	20130404	WO2012JP72616	20120905

Priority:

JP20110215785 20110930 JP20120213951 20120927 WO2012JP72616 20120905

Probable Assignee: SHARP KK

Assignee(s): (std): IMAMURA KIMIHIKO ; KATO YASUYUKI ; NAKASHIMA DAIICHIRO ; NOGAMI TOSHIZO ; SHARP KK ; UEMURA KATSUNARI ; SUZUKI SHOICHI ; SHIMEZAWA KAZUYUKI ; OUCHI WATARU

Assignee(s): SHARP KABUSHIKI KAISHA ; SHARP CORP ; SHARP KABUSHIK KAISHA

Inventor(s): (std): DA NEISHE ; IMAMURA KIMIHIKO ; KAMIMURA KATSUNARI ; KATO YASUYUKI ; NAKAJIMA TAIICHIRO ; NAKASHIMA DAIICHIRO ; NOGAMI TOMOZO ; NOGAMI TOSHIZO ; OUCHI WATARU ; SHIMEZAWA KAZUYUKI ; SHISAWA TOSHIYUKI ; SUZUKI SHOICHI ; UEMURA KATSUNARI

Agent(s): MUELLER BORE AND PARTNER PATENTANWAELTE PARTG MBB; KEATING AND BENNETT LLP; FUKUCHI TAKEO

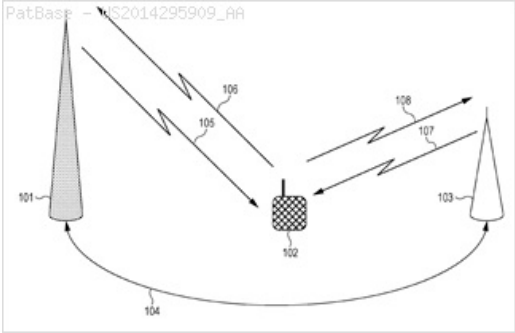
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Title: TERMINAL, BASE STATION, METHOD, AND INTEGRATED CIRCUIT

Abstract: Source: US2014295909A In a communication system in which a base station and a terminal communicates, the base station and the terminal communicates efficiently. There is provided the terminal which communicates with the base station, the terminal including: a reception unit 605 which detects a transmission power control (TPC) command in a downlink control information (DCI) format and obtains a power correction value from the TPC command; and a transmission power control unit 6015 which sets transmission power of an uplink signal based on a power correction value obtained from a first TPC command when the terminal is in a first state and sets transmission power of the uplink signal based on a power correction value obtained from a second TPC command when the terminal is in a second state.

Classifications:

International (IPC 8-9): H04B7/005 H04B7/02 H04B7/216 H04J11/00 H04J13/00 H04J99/00 H04W52/04 H04W52/08 H04W52/14 H04W52/22 H04W52/24 H04W52/40 H04W52/54 H04W72/04 (Advanced/Invention); H04B7/024 (Advanced/Non-invention)
CPC: H04W72/042 H04W52/146 H04B7/005 H04B7/216 H04W52/04 H04B7/024 H04W52/242 H04W52/245 H04W52/40
US: 455/522



Family:

Publication number	Publication date	Application number	Application date
CN103918323 A	20140709	CN201280054491	20121107
EP2779760 A1	20140917	EP20120847320	20121107
EP2779760 A4	20150415	EP20120847320	20121107
EP2779760 B1	20170719	EP20120847320	20121107
JP2013098949 A2	20130520	JP20110242968	20111107
JP5990815 B2	20160914	JP20110242968	20111107
KR20140091712 A	20140722	KR20147013551	20121107
US2014295909 AA	20141002	US20120356614	20121107
US9832732 BB	20171128	US20120356614	20121107
WO13069656 A1	20130516	WO2012JP78773	20121107

Priority:

JP20110242968 20111107 WO2012JP78773 20121107

Probable Assignee: SHARP KK

Assignee(s): (std): IMAMURA KIMIHIKO ; NAKASHIMA DAIICHIRO ; OUCHI WATARU ; SHARP KK

Assignee(s): SHARP KABUSHIKI KAISHA ; SHARP KABUSHIK KAISHA ; SHARP CORP

Inventor(s): (std): IMAMURA KIMIHIKO ; NAKAJIMA TAIICHIRO ; NAKASHIMA DAIICHIRO ; OUCHI WATARU

Agent(s): MUELLER BORE AND PARTNER PATENTANWAELTE PARTG MBB; KEATING AND BENNETT LLP; YONETSU KIIYOSHI ET AL

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

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

Abstract: Source: US2014341146A The present invention enables a signal containing control information to be efficiently transmitted and received between a base station apparatus and a mobile station apparatus. The mobile station apparatus includes a first control unit configured to control, for a localized EPDCCH which is an EPDCCH constituted by a resource of one PRB pair, the EPDCCH being constituted by an aggregation of one or more ECCEs, a plurality of PRB pairs being configured as a region to which the EPDCCH is to be possibly mapped, an antenna port associated with a reference signal used for demodulation of a signal mapped to a corresponding ECCE constituted by a resource obtained by dividing the PRB pair.

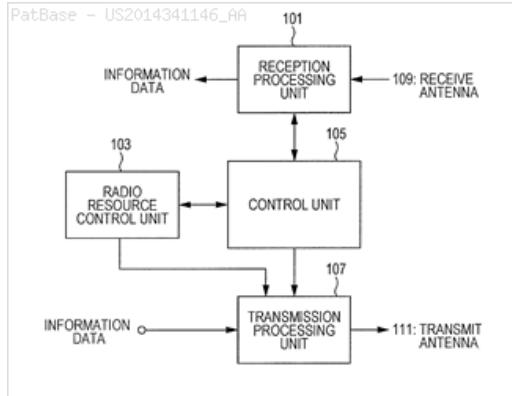
Classifications:

International (IPC 8-9): H04B7/04 H04J1/00 H04J11/00 H04J99/00 H04L1/00 H04L1/18 H04L5/00 H04W16/28

H04W72/04 (Advanced/Invention)

CPC: H04W72/042 H04L1/0026 H04L1/1812 H04L5/0007 H04L5/0023 H04L5/0053

US: 370/329



Family:

Publication number	Publication date	Application number	Application date
CN103988561 A	20140813	CN201280061376	20121207
EP2793518 A1	20141022	EP20120857592	20121207
EP2793518 A4	20150909	EP20120857592	20121207
JP2013123138 A2	20130620	JP20110270774	20111212
JP2013123139 A2	20130620	JP20110270775	20111212
JP5957732 B2	20160727	JP20110270775	20111212
US2014341146 AA	20141120	US20120364614	20121207
US9609638 BB	20170328	US20120364614	20121207
WO13089020 A1	20130620	WO2012JP81739	20121207

Priority:

JP20110270774 20111212 JP20110270775 20111212 WO2012JP81739 20121207

Probable Assignee: SHARP KK

Assignee(s): (std): IMAMURA KIMIHIKO ; NAKASHIMA DAIICHIRO ; NOGAMI TOSHIZO ; SHIMEZAWA KAZUYUKI ; SHARP KK

Assignee(s): SHARP KABUSHIKI KAISHA ; SHARP KABUSHIK KAISHA ; SHARP CORP

Inventor(s): (std): IMAMURA KIMIHIKO ; NAKAJIMA TAIICHIRO ; NAKASHIMA DAIICHIRO ; NOGAMI TOMOZO ; NOGAMI TOSHIZO ; SHIMEZAWA KAZUYUKI ; SHISAWA TOSHIYUKI

Agent(s): MUELLER HOFFMANN AND PARTNER; BIRCH STEWART KOLASCH AND BIRCH LLP; YONETSU KIYOSHI ET AL

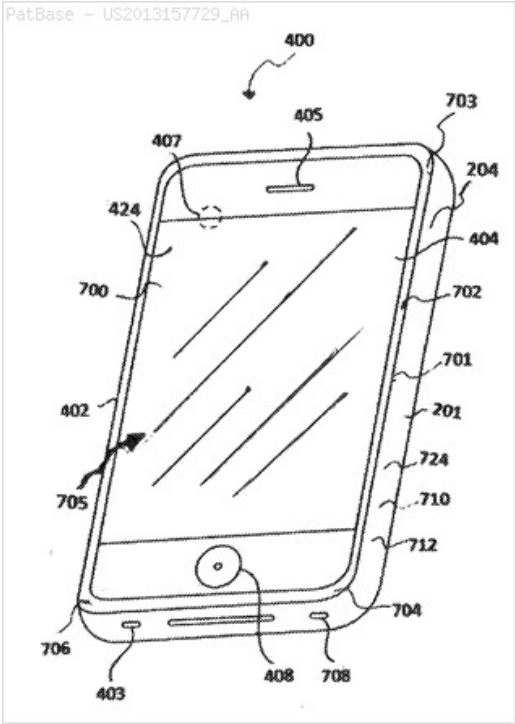
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Title: ENERGY HARVESTING COMPUTER DEVICE IN ASSOCIATION WITH A COMMUNICATION DEVICE CONFIGURED WITH APPARATUS FOR BOOSTING SIGNAL RECEPTION

Abstract: Source: US2013157729A Disclosed embodiments comprise an energy harvesting computer device in association with a communication device comprising interactive user interface operatively configured with CMOS multiple antennas on chip for boosting signal receptions and for providing faster data transmission speed. Disclosed embodiment encompasses three modes of communications-the Cell phone, wireless Internet applications, and Global communication and media information. Embodiments provide communication apparatus operable to enhance mobile communication efficiency with touch sensitive display comprising energy harvesting platform in communication with a charging circuit board configured with memories, processors, sensors, and modules. Embodiments further provide a gaming device, a wireless media device configured with touch pads comprising sensors being embedded in silicon substrate and fused in nano-fiber/microfiber material having excellent electrical characteristics. Certain embodiments provide communication apparatus configured for voice enabled applications comprising human voice auditory operable to convert text into voice auditory and/or voice auditory into text applications.

Classifications:

International (IPC 8-9): H04W52/00 H04W52/02 (Advanced/Invention); B82Y30/00 B82Y99/00 (Advanced/Non-invention)
CPC: H04W52/0245 B82Y30/00 Y02B60/50
US: 455/573 977/700 977/762 977/932



Family:

Publication number	Publication date	Application number	Application date
US2013157729 AA	20130620	US20110328383	20111216
US9743357 BB	20170822	US20110328383	20111216

Priority:

US20110328383 20111216

Probable Assignee: TABE JOSEPH AKWO
Assignee(s): (std): TABE JOSEPH AKWO
Inventor(s): (std): TABE JOSEPH AKWO

Abstract: Source: US2014341145A The present invention enables efficient transmission/reception of a signal including control information between a base station apparatus and a mobile station apparatus. An EPDCCH is made up of an aggregation of one or more resources obtained by dividing one of PRB pairs. In a case where a total number of antenna ports for transmitting reference signals to be used to demodulate signals mapped to the EPDCCH is four, four resources obtained by dividing one of the PRB pairs correspond to the antenna ports of different numbers. In a case where a total number of antenna ports for transmitting reference signals to be used to demodulate signals mapped to the EPDCCH is two, two resources obtained by dividing one of the PRB pairs correspond to the antenna ports of different numbers. The mobile station apparatus includes a reception processor that demodulates, by using reference signals transmitted from the antenna ports corresponding to the resources used for the EPDCCH, signals mapped to the EPDCCH for which decoding and detection are performed.

International (IPC 8-9): H04B7/04 H04J11/00 H04J99/00 H04L1/16
H04L5/00 H04W16/28 H04W28/16 H04W72/04
H04W72/06 (Advanced/Invention)
CPC: H04W72/042 H04L1/1607 H04L5/0007 H04L5/0053 H04W72/04
H04W72/0413 H04L5/0023 H04L5/0051
US: 1/1 370/329



Publication number	Publication date	Application number	Application date
JP2013123140 A2	20130620	JP20110270776	20111212
JP5843390 B2	20160113	JP20110270776	20111212
US2014341145 AA	20141120	US20120364576	20121207
US9445412 BB	20160913	US20120364576	20121207
WO13089021 A1	20130620	WO2012JP81740	20121207

JP20110270776 20111212 WO2012JP81740 20121207

Assignee(s): (std): IMAMURA KIMIHIKO ; NAKASHIMA DAIICHIRO ; NOGAMI TOSHIZO ; SHIMEZAWA KAZUYUKI ; SHARP KK

Inventor(s): (std): IMAMURA KIMIHIKO ; NAKAJIMA TAIICHIRO ; NAKASHIMA DAIICHIRO ; NOGAMI TOMOZO ; NOGAMI TOSHIZO ; SHIMEZAWA KAZUYUKI ; SHISAWA TOSHIYUKI

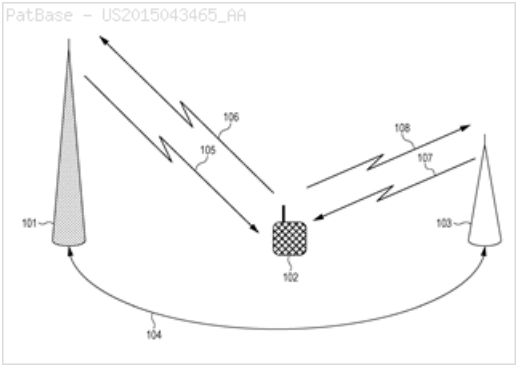
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IE IL IN IS IT KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT
MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RC RD RE RF RO RU RW SC SD SE SG SI SK SL
SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UB US UZ VC VN ZA ZM ZW

Title: BASE STATION, TERMINAL, COMMUNICATION METHOD, AND INTEGRATED CIRCUIT

Abstract: Source: US2015043465A A terminal that generates a base sequence for a sounding reference signal (SRS) on the basis of a specific parameter, including a reception unit that receives a radio resource control signal containing a first parameter and a second parameter, and that receives a downlink control information (DCI) format containing a field (SRS request) that specifies whether or not to request transmission of the SRS, and an uplink reference signal generation unit that determines whether the first parameter or the second parameter is to be used as the specific parameter that is applied to the base sequence, on the basis of the DCI format.

Classifications:

International (IPC 8-9): H04B7/02 H04L5/00 H04W16/28 H04W28/16 H04W52/04 H04W52/32 H04W72/04 H04W72/12 (Advanced/Invention)
CPC: H04W28/16 H04W72/04 H04W72/12 H04W52/04 H04L5/0048 H04B7/024 H04W16/28 H04W52/146 H04W52/16 H04W52/325
US: 370/329



Family:

Publication number	Publication date	Application number	Application date
CN104160733 A	20141119	CN201380013329	20130304
EP2824956 A1	20150114	EP20130757387	20130304
EP2824956 A4	20151014	EP20130757387	20130304
JP2013187819 A2	20130919	JP20120052979	20120309
US2015043465 AA	20150212	US20130382860	20130304
WO13133193 A1	20130912	WO2013JP55785	20130304

Priority:

JP20120052979 20120309 WO2013JP55785 20130304

Probable Assignee: SHARP KK

Assignee(s): (std): SHARP KK

Assignee(s): SHARP CORP

Inventor(s): (std): OUCHI WATARU

Agent(s): MUELLER HOFFMANN AND PARTNER; YONETSU KIYOSHI ET AL

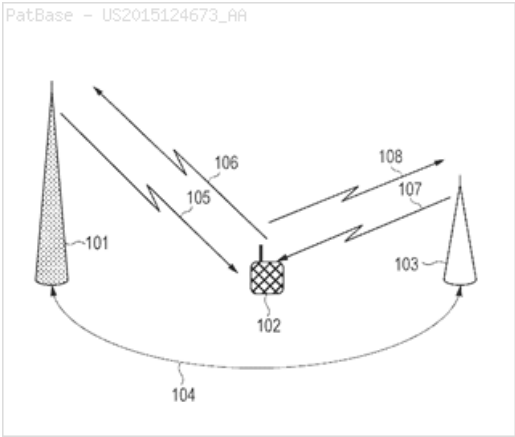
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Title: TERMINAL, COMMUNICATION METHOD, AND INTEGRATED CIRCUIT

Abstract: Source: US2015124673A Provided are a terminal, a communication method, and an integrated circuit, enabling a base station and a terminal to efficiently communicate with each other in a communication system in which the base station and the terminal communicate with each other. A terminal performs communication with at least one base station, and includes means for performing first power correction on the transmit power of a sounding reference signal (SRS) on the basis of a first transmission power control (TPC) command, and means for performing second power correction on the transmit power of the SRS on the basis of a second TPC command.

Classifications:

International (IPC 8-9): H04J11/00 H04J99/00 H04W28/16
H04W52/14 H04W52/22 H04W52/24 H04W52/32 H04W52/36
H04W52/58 H04W72/04 (Advanced/Invention)
CPC: H04W52/225 H04W52/362 H04W52/58 H04W52/146
H04W52/248 H04W52/325 H04W52/367
US: 370/311



Family:

Publication number	Publication date	Application number	Application date
CN104272820 A	20150107	CN201380023978	20130510
EP2849504 A1	20150318	EP20130787329	20130510
EP2849504 A4	20151111	EP20130787329	20130510
ID201603357 A	20160513	ID2014P0007298	20130510
JP2013236287 A2	20131121	JP20120108057	20120510
JP6073073 B2	20170201	JP20120108057	20120510
US2015124673 AA	20150507	US20130397660	20130510
US9661589 BB	20170523	US20130397660	20130510
WO13168791 A1	20131114	WO2013JP63153	20130510

Priority:

JP20120108057 20120510 WO2013JP63153 20130510

Probable Assignee: SHARP KK

Assignee(s): (std): SHARP KK

Assignee(s): SHARP CORP ; SHARP KABUSHIK KAISHA

Inventor(s): (std): OUCHI WATARU ; SUZUKI SHOICHI

Inventor(s): WATARU OUCHI ; SHOICHI SUZUKI

Agent(s): MUELLER HOFFMANN AND PARTNER; IR YT WIDJOJO; KEATING AND BENNETT LLP; YONETSU KIYOSHI ET AL

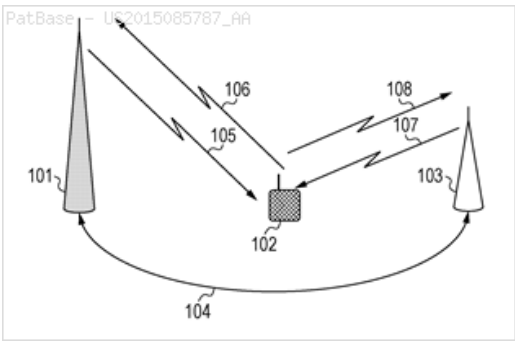
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY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

Abstract: Source: US2015085787A A terminal which performs communication with at least one base station, includes means for detecting a field indicating whether or not a transmission request of a sounding reference signal (SRS) is made from a downlink control information (DCI) format, means for generating a base sequence of the SRS on the basis of a first parameter in a case where the field indicates a transmission request of the SRS in a first DCI format, and means for generating a base sequence of the SRS on the basis of a second parameter in a case where the field indicates a transmission request of the SRS in a second DCI format.

Classifications:

International (IPC 8-9): H04B1/713 H04B17/318 H04J11/00
H04L5/00 H04W16/28 H04W28/16 H04W52/14 H04W52/24
H04W52/32 H04W52/54 H04W72/04 H04W72/14 (Advanced/Invention)
CPC: H04L5/0037 H04L5/0094 H04W52/248 H04W52/325
H04L5/0048 H04W72/042 H04W52/54 H04W52/146 H04B17/318
US: 370/329



Family:

Publication number	Publication date	Application number	Application date
CN104322124 A	20150128	CN201380024560	20130510
EP2849517 A1	20150318	EP20130788065	20130510
EP2849517 A4	20151111	EP20130788065	20130510
IN08217CN2014 A	20160701	IN2014CN08217	20141111
JP2013236289 A2	20131121	JP20120108059	20120510
US2015085787 AA	20150326	US20130399628	20130510
WO13168793 A1	20131114	WO2013JP63155	20130510

Priority:

JP20120108059 20120510 WO2013JP63155 20130510

Probable Assignee: SHARP KK

Assignee(s): (std): SHARP KK

Assignee(s): SHARP CORP ; SHARP KABUSHIK KAISHA

Inventor(s): (std): OUCHI WATARU

Agent(s): MUELLER HOFFMANN AND PARTNER; YONETSU KIYOSHI ET AL

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

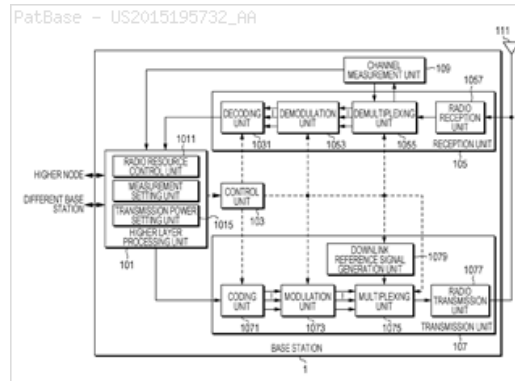
Abstract: Source: US2015195732A There are provided a terminal, a base station, a communication method, and an integrated circuit for enabling the base station and the terminal to efficiently perform received power measurement and perform a measurement report in a communication system in which the base station and the terminal perform communication with each other. The terminal that performs communication with the base station, includes a reception unit 205 that performs received power measurement that is based on a first signal in a certain cell, in which in a case where a configuration of a second signal is set and the certain cell is not set to a predetermined carrier type, the reception unit 205 performs the received power measurement that is based on the first signal, and in a case where the certain cell is set to the predetermined carrier type, the reception unit 205 performs the received power measurement that is based on the second signal.

Classifications:

International (IPC 8-9): H04J11/00 H04W24/10 H04W4/00
H04W48/16 H04W56/00 H04W88/02 (Advanced/Invention);
H04W88/02 (Advanced/Non-invention)

CPC: H04W56/00 H04W24/10 H04W48/16 H04W88/02

US: 370/252



Family:

Publication number	Publication date	Application number	Application date
AU2013297445 AA	20140206	AU20130297445	20130731
AU2013297445 BB	20160811	AU20130297445	20130731
CN104521318 A	20150415	CN201380041014	20130731
EP2882254 A1	20150610	EP20130825782	20130731
EP2882254 A4	20160615	EP20130825782	20130731
IN00594CN2015 A	20160701	IN2015CN00594	20150129
JP2014021391 A1	20160721	JP20140528201T	20130731
US2015195732 AA	20150709	US20130417687	20130731
US9781621 BB	20171003	US20130417687	20130731
WO14021391 A1	20140206	WO2013JP70786	20130731

Priority:

JP20120171552 20120802 WO2013JP70786 20130731

Probable Assignee: SHARP KK

Assignee(s): (std): SHARP CORP ; SHARP KK

Assignee(s): SHARP KABUSHIK KAISHA

Inventor(s): (std): AIBA TATSUSHI ; IMAMURA KIMIHIKO ; OUCHI WATARU

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; MUELLER BORE AND PARTNER
PATENTANWAELTE PARTG MBB; HARAKENZO WORLD PATENT AND TRADEMARK; BIRCH STEWART
KOLASCH AND BIRCH LLP; FUKUCHI TAKEO

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

Title: TERMINAL, BASE STATION, COMMUNICATION METHOD, AND INTEGRATED CIRCUIT

Abstract: Source: US2015208259A There are provided a terminal apparatus, a base station apparatus, a method, and an integrated circuit for enabling the base station apparatus and the terminal apparatus to efficiently perform received power measurement in a communication system in which the base station apparatus and the terminal apparatus perform communication with each other. The terminal apparatus that performs the communication with the base station apparatus includes a reception circuitry that performs received power measurement that is based on a first signal, and the reception circuitry that performs the received power measurement that is based on a second signal in a case where information relating to a configuration of the second signal is notified by a higher layer. Furthermore, the reception circuitry performs the received power measurement that is based on a third signal in a case where information relating to a configuration of the third signal is notified.

Classifications:

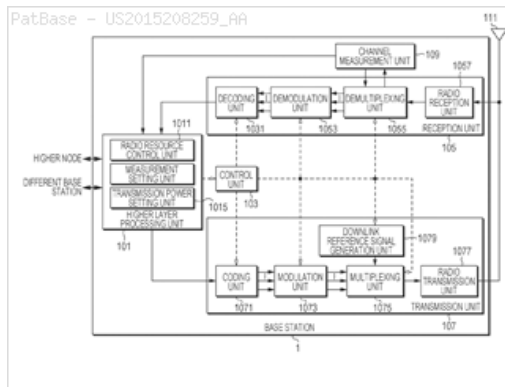
International (IPC 8-9): H04B17/327 H04L5/00 H04W16/32 H04W24/08 H04W24/10 H04W4/00 H04W48/16 H04W72/04

H04W88/02 (Advanced/Invention);

H04L5/00 H04W24/10 (Advanced/Non-invention)

CPC: H04W24/08 H04B17/327 H04W88/02 H04L5/0048 H04W24/10 H04W48/16 Y02B60/50

US: 370/252



Family:

Publication number	Publication date	Application number	Application date
CN104521319 A	20150415	CN201380041164	20130712
EP2882255 A1	20150610	EP20130826162	20130712
EP2882255 A4	20160309	EP20130826162	20130712
ID201701600 A	20170303	ID2015P0000945	20130712
JP2014033287 A2	20140220	JP20120171553	20120802
JP6099329 B2	20170322	JP20120171553	20120802
KR101650672 B1	20160823	KR20157004041	20130712
KR20150036653 A	20150407	KR20157004041	20130712
US2015208259 AA	20150723	US20130417711	20130712
US9820173 BB	20171114	US20130417711	20130712
WO14021083 A1	20140206	WO2013JP69102	20130712

Priority:

JP20120171553 20120802 WO2013JP69102 20130712

Probable Assignee: SHARP KK

Assignee(s): (std): SHARP KK

Assignee(s): SHARP CORP ; SHARP KABUSHIK KAISHA

Inventor(s): (std): AIBA TATESHI ; AIBA TATSUSHI ; IMAMURA KIMIHIKO ; OUCHI WATARU

Inventor(s): TATSUSHI AIBA ; WATARU OUCHI ; KIMIHIKO IMAMURA

Agent(s): MUELLER BORE AND PARTNER PATENTANWALTE PARTG MBB; IR YT WIDJOJO CS; HARAKENZO WORLD PATENT AND TRADEMARK; BIRCH STEWART KOLASCH AND BIRCH LLP; YONETSU KIYOSHI ET AL

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

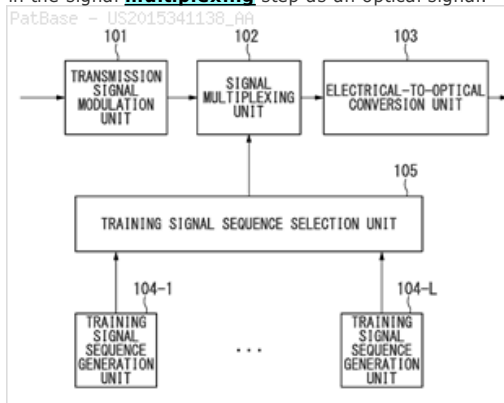
Abstract: Source: US2015341138A The estimation of an amount of chromatic dispersion using a training signal sequence is possible. A transmission method includes: a training signal sequence generation step of generating, as training signal sequences, a plurality of signal sequences having power concentrated in a plurality of frequency bands, the power concentrated at different frequency bands; a training signal sequence selection step of selecting at least one training signal sequence from among the plurality of training signal sequences generated in the training signal sequence generation step, a signal **multiplexing** step of generating a signal sequence obtained by time-division **multiplexing** the training signal sequence selected in the training signal sequence selection step with a transmission data sequence, and an electrical-to-optical conversion step of transmitting the signal sequence generated in the signal **multiplexing** step as an optical signal.

Classifications:

International (IPC 8-9): H04B10/077 H04B10/25 H04B10/2513 H04B10/516 H04B10/61 H04B10/69 H04B17/00 H04J14/08 H04J3/14 (Advanced/Invention)

CPC: H04J14/08 H04B10/0775 H04J3/14 H04B10/6161 H04B10/2513 H04B10/25133 H04B10/516 H04B10/61 H04B10/697 H04B2210/072

US: 398/35

**Family:**

Publication number	Publication date	Application number	Application date
CN104904141 A	20150909	CN201480004694	20140115
CN104904141 B	20170517	CN201480004694	20140115
EP2930864 A1	20151014	EP20140740258	20140115
EP2930864 A4	20161019	EP20140740258	20140115
EP2930864 B1	20170816	EP20140740258	20140115
EP3176964 A1	20170607	EP20160204161	20140115
JP2014112516 A1	20170119	JP20140557477T	20140115
JP5873575 B1	20160301	JP20140557477T	20140115
US2015341138 AA	20151126	US20140759329	20140115
US9621299 BB	20170411	US20140759329	20140115
WO14112516 A1	20140724	WO2014JP50553	20140115

Priority:

EP20140740258 20140115 JP20130004780 20130115 JP20130138928 20130702
 WO2014JP50553 20140115 JP20140557477 20140115

Probable Assignee: NIPPON TELEGRAPH AND TELEPHONE CORP

Assignee(s): (std): NIPPON TELEGRAPH AND TELEPHONE

Assignee(s): NIPPON TELEGRAPH AND TELEPHONE CORP

Inventor(s): (std): HORIKOSHI KENGO ; ISHIHARA KOICHI ; KATAOKA TOMOYOSHI ; KISAKA YOSHIKI ; KUDO RIICHI ; MIZOGUCHI MASATO ; MURAKAMI TOMOKI ; NAKAGAWA TADAO ; OKAMOTO SEIJI ; TOMIZAWA MASAHITO ; YAMAZAKI ETSUSHI

Agent(s): BREVALEX; SHIGA INT PATENT OFFICE; HARNESS DICKEY AND PIERCE PLC

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

Title: TERMINAL DEVICE, BASE STATION DEVICE, INTEGRATED CIRCUIT, AND RADIO COMMUNICATION METHOD

Abstract: Source: US2015289246A A terminal apparatus sets a first UL-DL configuration, receives information indicating a second UL-DL configuration via a physical downlink control channel, and monitors a physical downlink control channel with a C-RNTI, during an active time based on a first subframe which is set as a downlink subframe or a subframe including a downlink pilot time slot (DwPTS) on the basis of the first UL-DL configuration, in a second subframe which is set as a downlink subframe or a subframe including a DwPTS on the basis of the second UL-DL configuration.

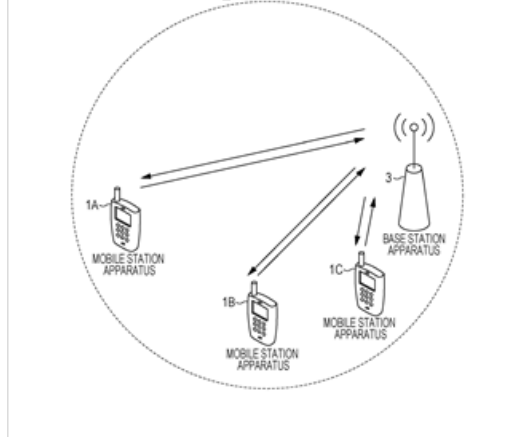
Classifications:

International (IPC 8-9): H04L1/18 H04L5/00 H04L5/14 H04W52/02 H04W72/04 H04W76/02 H04W76/04 (Advanced/Invention); H04L5/00 H04W88/08 (Advanced/Non-invention)

CPC: H04W72/0406 H04W72/0446 H04W76/048 H04L1/1812 H04W76/021 H04W88/08 H04L5/0048 H04L5/0055 H04L1/1851 H04L1/1854 H04L1/1883 H04L1/1887 H04L5/001 H04L5/0023 H04L5/0092 H04L5/1469 H04W52/0216 Y02B60/50

US: 370/329

PatBase - US2015289246_AA



Family:

Publication number	Publication date	Application number	Application date
CN105052216 A	20151111	CN201480017671	20140324
EP2983418 A1	20160210	EP20140779226	20140324
EP2983418 A4	20161228	EP20140779226	20140324
EP2983418 A8	20160413	EP20140779226	20140324
EP2983418 B1	20171129	EP20140779226	20140324
JP2014162913 A1	20170216	JP20150510009T	20140324
US2015289246 AA	20151008	US20140438314	20140324
US9723593 BB	20170801	US20140438314	20140324
WO14162913 A1	20141009	WO2014JP58119	20140324

Priority:

JP20130077370 20130403 WO2014JP58119 20140324

Probable Assignee: SHARP KK

Assignee(s): (std): SHARP CORP ; SHARP KK

Inventor(s): (std): AIBA TATSUSHI ; AIBA TAUSUSHI ; KATO YASUYUKI ; NAKASHIMA DAIICHIRO ; SUZUKI SHOICHI ; UEMURA KATSUNARI

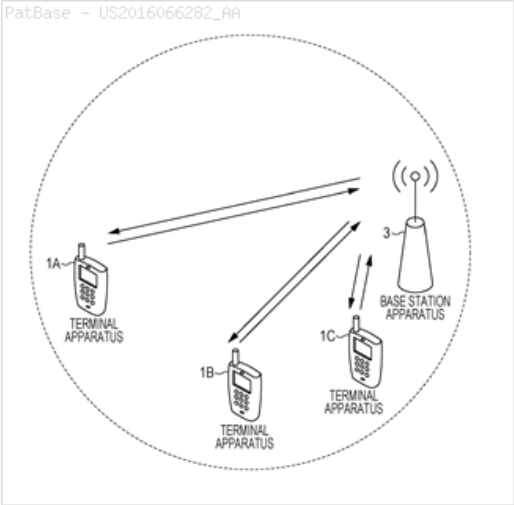
Agent(s): MUELLER HOFFMANN AND PARTNER; KEATING AND BENNETT LLP; FUKUCHI TAKEO

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

Title: TERMINAL APPARATUS, METHOD, AND INTEGRATED CIRCUIT

Abstract: Source: US2016066282A In a terminal apparatus communication with a base station apparatus, transmit power for a PUSCH transmission is set based on a beta offset in a case where a delta MCS is enabled. In regard to control data sent via the PUSCH without the UL-SCH data in subframes belonging to a first subframe set, a value of the beta offset is based on third information. In regard to the control data sent via the PUSCH without the UL-SCH data in subframes belonging to a second subframe set, the value of the beta offset is based on fourth information.

Classifications:
International (IPC 8-9): H04B7/00 H04J11/00 H04L5/00 H04W28/04 H04W28/06 H04W52/26 H04W52/28 H04W52/30 H04W72/04 H04W72/12 (Advanced/Invention)
CPC: H04W72/0413 H04W72/0473 H04W52/262 H04W52/28 H04L5/00
US: 455/522



Family:

Publication number	Publication date	Application number	Application date
CN105359593 A	20160224	CN201480038720	20140716
JP2015008804 A1	20170302	JP20150527325T	20140716
US2016066282 AA	20160303	US20140783528	20140716
US9516606 BB	20161206	US20140783528	20140716
WO15008804 A1	20150122	WO2014JP68957	20140716

Priority:

JP20130150099 20130719 WO2014JP68957 20140716

Probable Assignee: SHARP KK

Assignee(s): (std): SHARP CORP ; SHARP KK

Inventor(s): (std): AIBA TATSUSHI ; OUCHI WATARU ; SUZUKI SHOICHI ; TAKAHASHI HIROKI ; YOKOMAKURA KAZUNARI

Agent(s): KEATING AND BENNETT LLP; FUNAYAMA TAKESHI ET AL

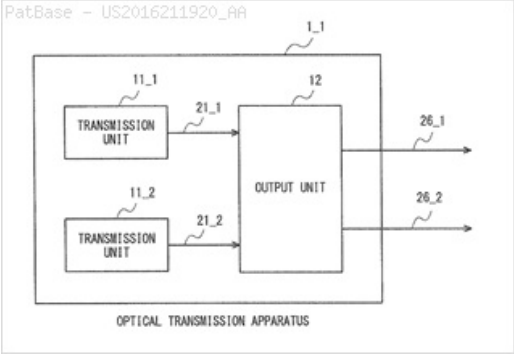
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Title: OPTICAL TRANSMISSION APPARATUS, OPTICAL RECEPTION APPARATUS, OPTICAL COMMUNICATION APPARATUS, OPTICAL COMMUNICATION SYSTEM, AND METHODS OF CONTROLLING THEM

Abstract: Source: US2016211920A An optical transmission apparatus (1_1) according to the present invention includes a first transmission unit (11_1) that transmits a first optical transmission signal (21_1), a second transmission unit (11_2) that transmits a second optical transmission signal (21_2), and an output unit that outputs, when the first optical transmission signal (21_1) and the second optical transmission signal (21_2) share a set of information, both the first optical transmission signal (21_1) and the second optical transmission signal (21_2) to a first path (26_1) and outputs, when the first optical transmission signal (21_1) and the second optical transmission signal (21_2) do not share the set of information, one of the first optical transmission signal (21_1) and the second optical transmission signal (21_2) to a second path (26_2).

Classifications:

International (IPC 8-9): H04B10/27 H04B10/40 H04B10/50
H04B10/60 H04J14/00 H04J14/02 H04J14/06
H04L12/911 (Advanced/Invention)
CPC: H04B10/50 H04J14/00 H04B10/60 H04B10/40 H04J14/0238
H04J14/02 H04J14/0257 H04J14/0267 H04J14/0298 H04J14/06
US: 398/43



Family:

Publication number	Publication date	Application number	Application date
CO16047302 A2	20160909	CO20160047302	20160224
EP3041156 A1	20160706	EP20130892271	20130830
EP3041156 A4	20170719	EP20130892271	20130830
IN201617006113 A	20160805	IN201617006113	20160222
JP2015029091 A1	20170302	JP20150533764T	20130830
MA38876 A1	20170929	MA20130038876	20130830
MX2016002233 A1	20160621	MX20160002233	20130830
RU2016111607 A	20171004	RU20160111607	20130830
RU2634847 C2	20171107	RU20160111607	20130830
US2016211920 AA	20160721	US20130915216	20130830
WO15029091 A1	20150305	WO2013JP05153	20130830

Priority:

WO2013JP05153 20130830

Probable Assignee: NEC CORP

Assignee(s): (std): NEC CORP ; NEK KORPOREJSHN

Inventor(s): (std): AONO JOSIAKI ; AONO YOSHIAKI

Inventor(s): YOSHIAKI AONO

Agent(s): HUMBERTO RUBIO CAMACHO; REEVE NICHOLAS EDWARD; IEIRI TAKESHI; OOO YURIDICHESKAYA GORODISSKIJ I PARTNER Y FA

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

Title: TERMINAL DEVICE, BASE STATION APPARATUS, METHOD IN TERMINAL DEVICE, AND METHOD IN BASE STATION APPARATUS

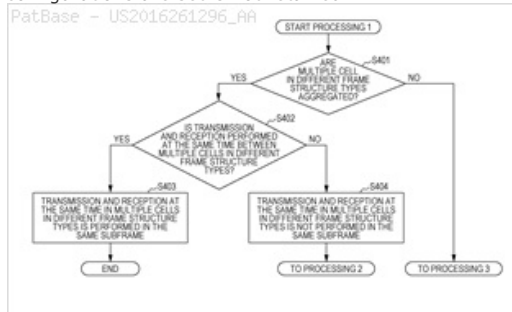
Abstract: Source: US2016261296A According to an aspect of the present invention, there is provided a terminal device that communicates with a base station apparatus, the terminal device including: a transmission unit that does not transmit an uplink signal in a secondary cell on the same subframe as a subframe, if the subframe in a primary cell is assumed to be a downlink subframe, in a case where multiple cells that include at least a cell in a first frame structure type (FDD) and a cell in a second frame structure type (TDD) are aggregated, different TDD UL/DL configurations are set in each of the multiple cells in the second frame structure type, and a function of performing transmission and reception at the same time between cells in the second frame structure type for which the different TDD UL/DL configurations are set is not retained.

Classifications:

International (IPC 8-9): H04B1/10 H04L5/14 H04W28/06 H04W28/16 H04W72/04 H04W72/12 (Advanced/Invention)

CPC: H04B1/10 H04L5/14 H04W72/0446 H04W84/045 H04W72/12

US: 370/280



Family:

Publication number	Publication date	Application number	Application date
CN105659684 A	20160608	CN201480058639	20141024
EP3062575 A1	20160831	EP20140856214	20141024
EP3062575 A4	20170705	EP20140856214	20141024
JP2015060433 A1	20170309	JP20150543928T	20141024
US2016261296 AA	20160908	US20140031190	20141024
WO15060433 A1	20150430	WO2014JP78371	20141024

Priority:

JP20130221791 20131025 WO2014JP78371 20141024

Probable Assignee: SHARP KK

Assignee(s): (std): SHARP CORP ; SHARP KK

Inventor(s): (std): IMAMURA KIMIHIKO ; NOGAMI TOSHIZO ; OUCHI WATARU ; SHIMEZAWA KAZUYUKI ; SUZUKI SHOICHI

Agent(s): MUELLER BORE AND PARTNER PATENTANWALTE PARTG MBB; HARAKENZO WORLD PATENT AND TRADEMARK; FUNAYAMA TAKESHI ET AL

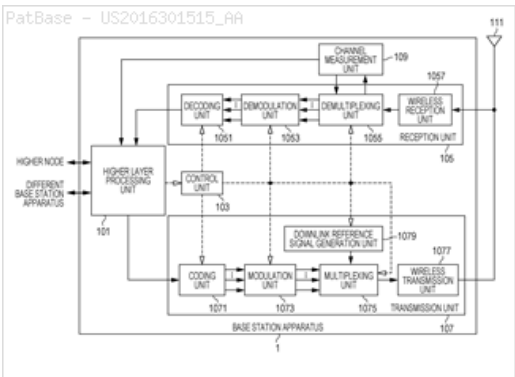
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW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

Title: TERMINAL DEVICE, BASE STATION APPARATUS AND METHOD

Abstract: Source: US2016301515A Provided is a terminal device that communicates with a base station apparatus and that includes: a reception unit that receives first information relating to a configuration of enhanced interference management and traffic adaptation (eIMTA) and second information relating to a channel state information (CSI) subframe set, through higher layer signaling; and a transmission unit that drops a CSI report which uses a physical uplink control channel (PUCCH) considering priorities among subframe sets in a case where, in the second information, a first CSI subframe set and a second CSI subframe set are configured.

Classifications:

International (IPC 8-9): H04J11/00 H04L1/16 H04L27/26 H04L5/00 H04L5/14 H04L5/22 H04W24/10 H04W72/04 H04W72/12 (Advanced/Invention); H04L5/14 (Advanced/Non-invention)
CPC: H04L5/0057 H04L27/2602 H04L5/0044 H04W72/0413 H04W72/1226 H04W72/042 H04W72/0446 H04L5/22 H04L5/1469 H04L5/0055 H04L5/0073
US: 370/329



Family:

Publication number	Publication date	Application number	Application date
CN105684498 A	20160615	CN201480058905	20141031
EP3065448 A1	20160907	EP20140858517	20141031
EP3065448 A4	20170524	EP20140858517	20141031
JP2015064738 A1	20170309	JP20150545323T	20141031
US2016301515 AA	20161013	US20140032069	20141031
WO15064738 A1	20150507	WO2014JP79060	20141031

Priority:

JP20130227800 20131101 WO2014JP79060 20141031

Probable Assignee: SHARP KK

Assignee(s): (std): SHARP CORP ; SHARP KK

Inventor(s): (std): AIBA TATSUSHI ; IMAMURA KIMIHIKO ; OUCHI WATARU

Agent(s): MUELLER HOFFMANN AND PARTNER; HARA KENZO WORLD PATENT AND TRADEMARK; FUNAYAMA TAKESHI ET AL

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

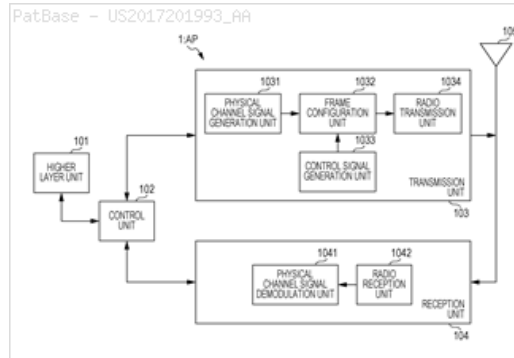
Title: RADIO TRANSMISSION APPARATUS, RADIO RECEPTION APPARATUS, AND COMMUNICATION METHOD

Abstract: Source: US2017201993A Provided are a radio transmission apparatus, a radio reception apparatus, and a communication method capable of realizing a radio LAN system in which user throughput is improved by using OFDMA while suppressing overhead. A radio transmission apparatus of the invention selects any one group from a plurality of groups each indicating a combination of a plurality of radio reception apparatuses, notifies at least a plurality of radio reception apparatuses belonging to the selected group of an identification number assigned in advance to the selected group, and allocates transmission data addressed to the radio reception apparatuses belonging to the selected group to each of a plurality of frequency resources on the basis of order of the radio reception apparatuses, which is determined in advance in the selected group.

Classifications:

International (IPC 8-9): H04B7/04 H04B7/0413 H04J1/00 H04J11/00 H04J99/00 H04L27/26 H04L5/00 H04W72/04 (Advanced/Invention)

CPC: H04J1/00 H04J11/00 H04W72/0453 H04L5/0007 H04B7/04

**Family:**

Publication number	Publication date	Application number	Application date
CN106416107 A	20170215	CN201580027654	20150512
EP3151454 A1	20170405	EP20150798944	20150512
JP2015182372 A1	20170420	JP20160523409T	20150512
US2017201993 AA	20170713	US20150313567	20150512
WO15182372 A1	20151203	WO2015JP63613	20150512

Priority:

JP20140107650 20140526 WO2015JP63613 20150512

Probable Assignee: SHARP KK

Assignee(s): (std): SHARP CORP ; SHARP KK

Inventor(s): (std): ONODERA TAKASHI ; TOMEBA HIROMICHI

Agent(s): MUELLER HOFFMANN AND PARTNER; FUKUCHI TAKEO

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

Title: METHOD AND APPARATUS FOR TRANSMITTING/RECEIVING SYNCHRONIZATION SIGNAL IN DEVICE-TO-DEVICE COMMUNICATION SYSTEM

Abstract: Source: US2016044619A The present disclosure relates to a pre-fifth generation (5G) or 5G communication system to be provided for supporting higher data rates beyond fourth generation (4G) communication system such as long term evolution (LTE). A synchronization signal transmission/reception method for use in a device-to-device (D2D) communication system is provided. A method of transmitting a synchronization signal for D2D communication in an asynchronous network, in which a first terminal located in a first cell controls synchronization with a second terminal located outside of the first cell, includes transmitting, at the first cell, a system information block (SIB) including resource allocation information of the first cell and at least one neighboring cell, determining whether the first terminal is in a first mode and whether the first terminal is scheduled to perform one of a D2D communication and a D2D discovery; determining, when the first terminal is in the first mode, whether the first terminal is required to transmit a D2D synchronization signal (D2DSS); and transmitting, when the first terminal is required to transmit the D2DSS, scheduling information including a transmission time point and transmission reference timing information to the first terminal.

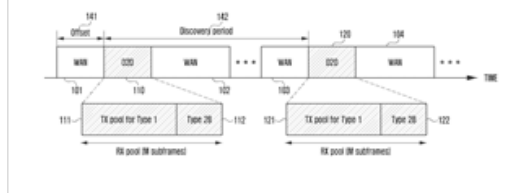
Classifications:

International (IPC 8-9): H04B7/26 H04J11/00 H04L1/18 H04L5/00 H04W4/02 H04W48/08 H04W48/16 H04W52/24 H04W52/38 H04W56/00 H04W64/00 H04W72/02 H04W72/04 H04W72/10 H04W72/12 H04W74/00 H04W76/02 H04W76/04 H04W8/00 H04W88/02 (Advanced/Invention)

CPC: H04W56/0015 H04W72/042 H04W72/1289 H04W72/048 H04W74/006 H04W76/046 H04W76/048 H04W56/001 H04W72/0493 H04L5/0007 H04W48/16 H04J11/0069 H04W72/1273 H04J2211/005 H04W72/10 H04W72/12 H04L5/0048 H04W88/08 H04W52/383 H04W52/243 H04W72/1242 H04L1/1812 H04L1/1887 H04W72/02 H04W52/24 H04W52/38 H04W4/023 H04W88/02 H04W64/00 H04W8/005 H04W72/0446 H04L1/00 H04L1/18 H04W76/023

US: 370/329 370/350 455/450

PatBase - US2016044619_AA

**Family:**

Publication number	Publication date	Application number	Application date
CN106688288 A	20170517	CN201580052290	20150924
CN107006025 A	20170801	CN201580061873	20150924
EP3198956 A2	20170802	EP20150844060	20150924
IN201737008863 A	20170825	IN201737008863	20170315
KR20160017627 A	20160216	KR20150110429	20150805
KR20160017640 A	20160216	KR20150111304	20150806
KR20160036458 A	20160404	KR20150032489	20150309
KR20160036649 A	20160404	KR20150120274	20150826
KR20160036674 A	20160404	KR20150132580	20150918
KR20160054384 A	20160516	KR20150045716	20150331
KR20160054394 A	20160516	KR20150123697	20150901
US2016044619 AA	20160211	US20150818573	20150805
US2016044652 AA	20160211	US20150820429	20150806
US2016095074 AA	20160331	US20150864009	20150924
US2016095133 AA	20160331	US20150864276	20150924
US2016135178 AA	20160512	US20150933390	20151105
US2017303214 AA	20171019	US20150512520	20150911
US9820285 BB	20171114	US20150820429	20150806
WO16021942 A1	20160211	WO2015KR08220	20150805
WO16021963 A1	20160211	WO2015KR08257	20150806
WO16047945 A1	20160331	WO2015KR09553	20150911
WO16048066 A1	20160331	WO2015KR10109	20150924
WO16048067 A2	20160331	WO2015KR10111	20150924
WO16048067 A3	20160512	WO2015KR10111	20150924

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KR20150032489	20150309	KR20150045716	20150331	KR20150120274	20150826
KR20150123697	20150901	KR20150110429	20150805	KR20150111304	20150806
US20150818573	20150805	US20140033798P	20140806	US20140055232P	20140925
US20140076156P	20141106	US20150820429	20150806	KR20150132580	20150918
US20150864009	20150924	US20150512520	20150911	US20150864276	20150924
US20150933390	20151105	WO2015KR10111	20150924	WO2015KR10109	20150924
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