

Diego Gonzalez

Title: CENTRALIZED MEDIUM ACCESS CONTROL ALGORITHM FOR CDMA REVERSE LINK

Abstract: A novel MAC algorithm is disclosed having various features for a modern CDMA interference-shared reverse link, including (a) link quality assurance, (b) individual congestion control, (c) variable data rate transition policy, and/or (d) reverse link partitioning. Link quality assurance is provided by monitoring transmission feedback information (ACK/NACK) to indirectly determine the quality of a communication link. Wireless devices are individually targeted to perform congestion control of the reverse link. Variable data transmission rates and discontinuous transmissions are achieved by individual wireless devices that autonomously adjust their transmission rate and transmit power. The reverse link can also be partitioned among the different wireless devices by individually controlling the transmit power of the wireless devices operating on the reverse link.

Classifications:

International (IPC 8-9): H04B1/707 H04L29/10 H04B H04B7/00 H04B7/005 H04B7/26 H04Q7/20 H04W28/02 H04W52/08 H04W52/30 H04W52/34 H04W52/36 H04W80/02 (Advanced/Invention); H04B7/26 H04W28/02 H04W52/30 H04W80/02 (Advanced/Non-invention);

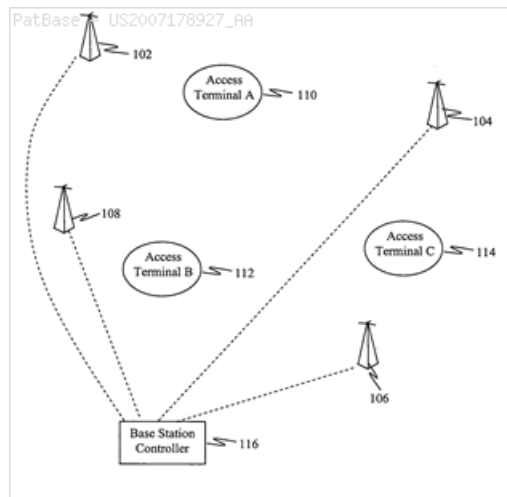
H04B7/00 H04B7/005 H04B7/26 H04W52/00 (Core/Invention)

International (IPC 1-7): H04B7/005

CPC: H04W52/343 H04W52/367 H04L5/0055 H04W52/14 H04W72/04 H04W28/0289 H04B7/2612

European: H04W52/34L H04W52/36K

US: 455/517 455/522 455/522P 455/67.13 455/69

**Family:**

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CN101411083 A	20090415	CN200780010899	20070126
EP1985032 A1	20081029	EP20070710324	20070126
HK1129784 A1	20091204	HK20090109532	20091015
HK1129784 A3	20091204	HK20090109532	20091015
IN03903CN2008 A	20090313	IN2008CN03903	20080725
JP2009525002 T2	20090702	JP20080552590T	20070126
KR101130586 B1	20120330	KR20087021068	20070126
KR20080098393 A	20081107	KR20087021068	20070126
KR20110044807 A	20110429	KR20117007832	20070126
TW200737789 A	20071001	TW20070103241	20070129
TW201123758 A	20110701	TW20110107256	20070129
TWI353127 B	20111121	TW20070103241	20070129
US2007178927 AA	20070802	US20060441651	20060525
US8254977 BB	20120828	US20060441651	20060525
WO07090053 A1	20070809	WO2007US61123	20070126

Priority:

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR 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 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: HIGH ORDER MODULATION CONFIGURATION METHOD AND APPARATUS FOR USER EQUIPMENT IN A CELL FORWARD ACCESS CHANNEL STATE

Abstract: The embodiment of the current invention provides a higher-order modulation method and device for a user equipment in a cell forward channel state, the method comprising: obtaining cell capability reported by a base station; determining whether to deploy a higher-order modulation for the user equipment in the cell forward access channel state according to the cell capability and a current configuration policy configured by the wireless network controller; separately sending a higher-order modulation activation indication to the base station and the user equipment if it is determined to deploy the higher-order modulation for user equipment in the cell forward channel state. The method and device of the embodiment increase the peak rate of the user equipment in the cell forward channel state via introducing higher-order modulation to the cell forward channel state, and provide guarantee for additional subsequent service bearers in the cell forward channel state.

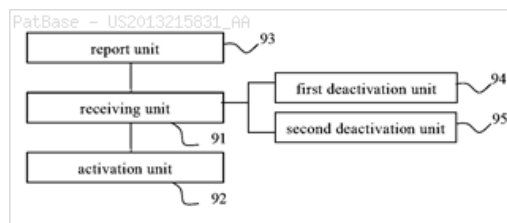
Classifications:

International (IPC 8-9): H04J13/00 H04L1/00 H04L1/16 H04L27/34 H04L27/36 H04W68/00 H04W76/02 H04W76/04 (Advanced/Invention)

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CN102447668 A	20120509	CN201010298222	20100930
EP2624489 A1	20130807	EP20110828126	20110928
EP2624489 A4	20140319	EP20110828126	20110928
US2013215831 AA	20130822	US20130853318	20130329
WO12041230 A1	20120405	WO2011CN080291	20110928

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