Title (en)

METHOD AND SYSTEM FOR INTEGRATING RESOURCE ALLOCATION BETWEEN TIME DIVISION DUPLEX AND FREQUENCY DIVISION DUPLEX IN WIRELESS COMMUNICATION SYSTEMS

Title (de)

VERFAHREN UND SYSTEM ZUR INTEGRATION DER BETRIEBSMITTELZUTEILUNG ZWISCHEN ZEITMULTIPLEX UND FREQUENZMULTIPLEX IN DRAHTLOSEN KOMMUNIKATIONSSYSTEMEN

Title (fr)

PROCEDE ET SYSTEME D'INTEGRATION D'ATTRIBUTION DE RESSOURCES ENTRE LE DUPLEXAGE PAR REPARTITION DANS LE TEMPS ET LE DUPLEXAGE PAR REPARTITION EN FREQUENCE DANS DES SYSTEMES DE COMMUNICATIONS SANS FIL

Publication

EP 1665839 A4 20110427 (EN)

Application

EP 04784970 A 20040925

Priority

- US 2004031366 W 20040925
- US 50642803 P 20030926

Abstract (en)

[origin: WO2005032172A1] The present invention integrates resource allocation between time division duplex (TDD) and frequency division duplex (FDD) in wireless communication systems. A radio network controller (RNC) receives a radio access bearer (RAB) request from a core network or a wireless receive/transmit unit. The RNC utilizes a TDD-FDD selector to assign radio resources in response to the request. The TDD-FDD selector evaluates various parameters regarding the received RAB request and determines whether it is preferable to assign TDD resources or FDD resources and whether such resources are currently available. Once resources are assigned, system conditions are evaluated to determine whether optimizations may be made to a current resource allocation.

IPC 8 full level

H04W 36/14 (2009.01); **H04L 12/56** (2006.01); **H04W 36/00** (2009.01); **H04W 72/04** (2009.01); **H04W 74/02** (2009.01); H04W 28/06 (2009.01); H04W 36/32 (2009.01); H04W 88/12 (2009.01)

CPC (source: EP KR US)

H04L 5/14 (2013.01 - KR); **H04W 28/06** (2013.01 - KR); **H04W 36/0066** (2013.01 - EP KR); **H04W 36/14** (2013.01 - EP KR US); **H04W 72/0446** (2013.01 - KR); **H04W 72/0453** (2013.01 - KR); **H04W 72/21** (2023.01 - KR); **H04W 74/02** (2013.01 - KR); **H04W 88/12** (2013.01 - KR); H04W 28/06 (2013.01 - EP); H04W 36/322 (2023.05 - EP KR US); H04W 36/324 (2023.05 - EP KR US); H04W 72/0446 (2013.01 - EP); H04W 72/0453 (2013.01 - EP); H04W 72/21 (2023.01 - EP); H04W 74/02 (2013.01 - EP); H04W 88/12 (2013.01 - EP)

Citation (search report)

- [X] US 2002173329 A1 20021121 - HWANG WOONHEE [FI]
- [X] EP 1259092 A2 20021120 - NTT DOCOMO INC [JP]
- [X] WO 0110159 A1 20010208 - HOTTINEN ARI [FI], et al
- [X] EP 1271829 A2 20030102 - NTT DOCOMO INC [JP]
- [XP] EP 1351537 A2 20031008 - NTT DOCOMO INC [JP]
- See references of WO 2005032172A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2005032172 A1 20050407; CA 2539728 A1 20050407; CN 1871865 A 20061129; EP 1665839 A1 20060607; EP 1665839 A4 20110427; JP 2007507180 A 20070322; KR 100833639 B1 20080530; KR 20060073643 A 20060628; KR 20070041633 A 20070418; KR 20090122369 A 20091127; MX PA06003302 A 20060608; NO 20061825 L 20060620; TW 200522635 A 20050701; TW 200616385 A 20060516; TW I267275 B 20061121

DOCDB simple family (application)

US 2004031366 W 20040925; CA 2539728 A 20040925; CN 200480027858 A 20040915; EP 04784970 A 20040925; JP 2006528205 A 20040925; KR 20067007970 A 20060425; KR 20077006102 A 20070316; KR 20097020561 A 20040925; MX PA06003302 A 20040925; NO 20061825 A 20060425; TW 93129317 A 20040927; TW 94112770 A 20040927