

Title (en)

Method and device for assigning reference signal sequences in mobile communications system

Title (de)

Verfahren und Vorrichtung zur Zuweisung von Referenzsignalsequenzen in einem mobilen Kommunikationssystem

Title (fr)

Procédé et dispositif pour attribuer des séquences de signaux de référence dans un système de communication mobile

Publication

EP 2007021 A8 20090211 (EN)

Application

EP 08075568 A 20080619

Priority

JP 2007161959 A 20070619

Abstract (en)

[origin: EP2007021A1] A reference signal sequence assignment method and device are provided by which the influence of inter-cell interference can be reduced and the number of usable cyclic shifted sequences per sector can be increased. In a mobile communications system with a structure including multiple cells each including multiple sectors, a sequence assignment method is employed by which pseudo-orthogonal sequences used for reference signals are assigned to cells or sectors. According to this method, the multiple pseudo-orthogonal sequences are assigned to cells or sectors by using multiple repetition patterns.

IPC 8 full level

H04B 1/707 (2011.01); **H04B 7/26** (2006.01); **H04J 11/00** (2006.01); **H04J 13/18** (2011.01); **H04L 27/26** (2006.01); **H04W 16/02** (2009.01); **H04W 16/24** (2009.01); **H04W 28/18** (2009.01); **H04W 72/04** (2009.01); **H04W 76/02** (2009.01)

CPC (source: EP US)

H04B 1/707 (2013.01 - EP US); **H04J 13/16** (2013.01 - EP US); **H04J 13/18** (2013.01 - EP US); **H04L 5/0048** (2013.01 - EP US); **H04L 27/2613** (2013.01 - EP US); **H04L 27/26132** (2021.01 - EP US); **H04W 16/02** (2013.01 - EP US); **H04B 2201/70701** (2013.01 - EP US); **H04J 13/0003** (2013.01 - EP US); **H04J 13/0059** (2013.01 - EP US); **H04L 5/0023** (2013.01 - EP US)

Cited by

EP2448162A4; EP2211515A1; CN102340463A; CN101854227A; CN102474390A; EP2398156A4; EP2413622A4; US8619540B2; US9698953B2; US8908818B2; WO2011003433A1; US9629152B2; US9143280B2; US9369967B2; US9854534B2; US10455516B2; US8675632B2; US8867465B2; US9236994B2; US9526097B2; US9826520B2

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2007021 A1 20081224; **EP 2007021 A8 20090211**; **EP 2007021 B1 20150930**; CN 101330321 A 20081224; CN 101330321 B 20140219; JP 2009004926 A 20090108; JP 5024533 B2 20120912; US 2008318608 A1 20081225; US 8891493 B2 20141118

DOCDB simple family (application)

EP 08075568 A 20080619; CN 200810127144 A 20080619; JP 2007161959 A 20070619; US 14174808 A 20080618