

Title (en)
APPARATUS AND METHOD OF INTER-CELL MACRO-DIVERSITY FOR PROVIDING BROADCAST/ MULTICAST SERVICE USING MULTI-ANTENNA

Title (de)
VORRICHTUNG UND VERFAHREN ZUR MACRODIVERSITY ZWISCHEN ZELLEN ZUR BEREITSTELLUNG VON BROADCAST-/MULTICAST-DIENST UNTER VERWENDUNG EINER MEHRANTENNE

Title (fr)
APPAREIL ET PROCÉDÉ DE MACRODIVERSITÉ INTERCELLULAIRE POUR FOURNIR UN SERVICE DE DIFFUSION/MULTIDIFFUSION AU MOYEN METTANT EN OEUVRE UNE PLURALITÉ D'ANTENNES

Publication
EP 1999861 A4 20130814 (EN)

Application
EP 07715782 A 20070323

Priority
• KR 2007001446 W 20070323
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• KR 20070028515 A 20070323

Abstract (en)
[origin: WO2007111449A1] Provided are a macro-diversity transmission apparatus and method for providing a broadcast/multicast service using multiple transmitting antennas in a wireless cellular communication system. The apparatus and method apply spatial multiplexing using multiple antennas within a cell and obtain additional diversity among adjacent cells or base stations. Therefore, the signal-to-interference ratio (SIR) and diversity order of signals received by terminals at cell boundaries can be increased. Consequently, cell coverage for a particular data rate can be increased, and transmission power can be reduced. Here, additional diversity applied among cells or base stations includes a method of changing antennas transmitting the same information among cells and a cyclic delay diversity (CDD) method.

IPC 8 full level
H04B 7/02 (2006.01); **H04B 7/06** (2006.01); **H04L 1/06** (2006.01)

CPC (source: EP KR US)
H04B 7/022 (2013.01 - EP KR US); **H04B 7/0671** (2013.01 - KR); **H04B 7/0697** (2013.01 - KR); **H04L 1/0606** (2013.01 - EP KR); **H04L 1/0618** (2013.01 - EP KR); **H04L 27/2627** (2013.01 - KR); **H04B 7/0671** (2013.01 - EP); **H04B 7/0697** (2013.01 - EP); **H04L 2001/0093** (2013.01 - EP KR); **Y02D 30/70** (2020.08 - EP KR US)

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• See references of WO 2007111449A1

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Designated contracting state (EPC)
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KR 2007001446 W 20070323; EP 07715782 A 20070323; KR 20070028515 A 20070323