Title (en)
METHOD AND SYSTEM FOR UTILIZING SMART ANTENNAS IN ESTABLISHING A BACKHAUL NETWORK

Title (de)
VERFAHREN UND SYSTEM ZUR VERWENDUNG INTELLIGENTER ANTENNEN BEI DER EINRICHTUNG EINES BACKHAULNETZES

Title (fr)
PROCEDE ET SYSTEME D'UTILISATION D'ANTENNES INTELLIGENTES DANS L'ETABLISSEMENT D'UN RESEAU D'AMENEE

Publication
EP 1757074 A4 20071121 (EN)

Application
EP 05758371 A 20050607

Priority
- US 2005019976 W 20050607
- US 57867704 P 20040610
- US 61772004 P 20041012
- US 1555704 A 20041217

Abstract (en)
[origin: WO2005125021A2] A method and system for utilizing smart antenna in transmission of messages between nodes are disclosed. A wireless communication system includes a plurality of nodes, and each node is capable of being connected to each other node. At least a portion of the nodes are provided with a smart antenna configured to generate a plurality of directional beams. Each node maintains a list of other nodes and beam configuration information to be used in transmission of messages to other nodes. When a source node is required to transmit to a target node, the source node retrieves the beam configuration information and transmits with a directional beam directed to the target node.

IPC 8 full level
H01Q 21/00 (2006.01); **H04B 1/00** (2006.01); **H04B 7/005** (2006.01); **H04B 7/02** (2006.01); **H04B 7/06** (2006.01); **H04L 12/28** (2006.01); **H04L 12/56** (2006.01); **H04L 45/42** (2022.01)

CPC (source: EP KR NO)
H01Q 3/26 (2013.01 - KR); **H04B 7/00** (2013.01 - KR); **H04B 7/026** (2013.01 - EP NO); **H04B 7/0695** (2013.01 - EP NO); **H04L 45/42** (2013.01 - EP NO); **H04W 40/06** (2013.01 - KR); **H04W 52/322** (2013.01 - EP NO); **H04W 88/04** (2013.01 - KR); H04W 40/06 (2013.01 - EP NO); H04W 88/02 (2013.01 - EP NO); H04W 88/04 (2013.01 - EP NO); Y02D 30/70 (2020.08 - NO)

Citation (search report)
- No further relevant documents disclosed
- See references of WO 2005125021A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005125021 A2 20051229; **WO 2005125021 A3 20060803**; AU 2005255887 A1 20051229; AU 2005255887 B2 20080605; AU 2008212043 A1 20081016; AU 2008212043 B2 20120119; BR PI0511368 A 20071204; CA 2570167 A1 20051229; CA 2570167 C 20110726; DE 202005009138 U1 20051110; EP 1757074 A2 20070228; EP 1757074 A4 20071121; IL 179857 A0 20070515; IL 179857 A 20140130; JP 2008011570 A 20080117; JP 2008503187 A 20080131; KR 101273680 B1 20130612; KR 101273816 B1 20130611; KR 101279171 B1 20130710; KR 20060069226 A 20060621; KR 20060092935 A 20060823; KR 20100097081 A 20100902; MX PA06014384 A 20070301; NO 20070158 L 20070109; NO 343968 B1 20190805; TW 200922175 A 20090516; TW I422177 B 20140101; TW M288010 U 20060221

DOCDB simple family (application)
US 2005019976 W 20050607; AU 2005255887 A 20050607; AU 2008212043 A 20080908; BR PI0511368 A 20050607; CA 2570167 A 20050607; DE 202005009138 U 20050610; EP 05758371 A 20050607; IL 17985706 A 20061205; JP 2007239951 A 20070914; JP 2007527650 A 20050607; KR 20050049554 A 20050610; KR 20050090146 A 20050927; KR 20100068607 A 20100715; MX PA06014384 A 20050607; NO 20070158 A 20070109; TW 94209577 U 20050608; TW 97124801 A 20050608