

Title (en)

System and procedure for the control of the antenna of a mobile radio telephone network

Title (de)

System und Verfahren zur Steuerung der Antenne eines Mobiltelefonnetzwerkes

Title (fr)

Système et procédé pour la commande de l'antenne d'un réseau de radiotéléphonie mobile

Publication

EP 1014482 A3 20020313 (EN)

Application

EP 99125386 A 19991220

Priority

IT MI982780 A 19981222

Abstract (en)

[origin: EP1014482A2] System for the control of single antennae or antenna arrays (1) of a mobile radio telephone network, which are installed on fixed bases (2) through a couple of supports (10, 11) rotating around a substantially horizontal axis and a substantially vertical axis, in which the form and dimensions of the coverage field (4) of each antenna (1) depend on the vertical pointing angle (theta) and on the horizontal pointing angle (phi). This system includes at least one central electronic processor connected through bi-directional lines (20) to a plurality of peripheral electronic processors (17) connected in their turn through bi-directional lines to one or more servomechanisms (13, 15) installed on said fixed bases (2), in which the mobile component of one of said servomechanisms (13, 15) is cinematically coupled to one of said supports (10, 11) of the antennas (1) and is operated by an actuator (e. g. a reduction gear) according to electrical signals transmitted by said central electronic processor through said peripheral processors (17), said electric signals corresponding to the variation of the vertical pointing angle (theta) and/or of the horizontal pointing angle (phi) of the antennas (1) themselves. The present invention relates also to a control procedure implemented through said system. <IMAGE></IMAGE>

IPC 1-7

H01Q 3/08; H01Q 1/24; H01Q 1/12; H01Q 3/00

IPC 8 full level

H01Q 1/24 (2006.01); **H01Q 3/08** (2006.01)

CPC (source: EP)

H01Q 1/246 (2013.01); **H01Q 3/08** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1014482 A2 20000628; EP 1014482 A3 20020313; IT 1304083 B1 20010307; IT MI982780 A1 20000622

DOCDB simple family (application)

EP 99125386 A 19991220; IT MI982780 A 19981222