Title (en)

Method for the control of the antenna of a mobile radio telephone network

Title (de)

Verfahren zur Steuerung der Antenne eines Mobiltelefonnetzwerkes

Title (fr)

Procédé pour la commande de l'antenne d'un réseau de radiotéléphonie mobile

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Application

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Abstract (en)

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 (ϕ). 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 (ϕ) of the antennas (1) themselves. The present invention relates also to a control procedure implemented through said system. <IMAGE> <IMAGE>

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H01Q 3/08; H01Q 1/24

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Cited by

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