

Title (en)

Directional radio stabilisation for wireless radio connections in millimetre wave and terahertz frequency range

Title (de)

Richtfunkstabilisierung für drahtlose Funkverbindungen im Millimeterwellen- und Terahertzfrequenz-Bereich

Title (fr)

Stabilisation de liaison hertzienne pour liaisons radio sans fil dans les zones d'ondes millimétriques et de fréquence térahertzienne

Publication

EP 2634860 A1 20130904 (DE)

Application

EP 12157565 A 20120229

Priority

EP 12157565 A 20120229

Abstract (en)

The device has a directional antenna attached at a stationary fastening unit. A sensor detects an alignment or an alteration of an alignment of the antenna relative to a coordinate system i.e. space-fixed coordinate system, and outputs position signals according to an acquired alignment or alteration of the alignment of the antenna. A processing unit i.e. digital signal processor, evaluates the position signals and generates and outputs correction signals. A correction unit corrects a radiation characteristic of the antenna according to correction data, and is integrated in the antenna. Independent claims are also included for the following: (1) a radio stabilization system for a stationary wireless radio connection (2) a radio stabilization method for a stationary wireless radio connection.

Abstract (de)

Die vorliegende Erfindung betrifft eine Vorrichtung und ein Verfahren für eine Funkverbindung mit Richtfunkstabilisierung, und insbesondere eine Vorrichtung und ein Verfahren für eine Funkverbindung mit Richtfunkstabilisierung im Millimeterwellen- und Terahertzfrequenz-Bereich.

IPC 8 full level

H01Q 1/00 (2006.01); **H01Q 1/12** (2006.01); **H01Q 1/18** (2006.01)

CPC (source: EP)

H01Q 1/005 (2013.01); **H01Q 1/1242** (2013.01); **H01Q 1/18** (2013.01); **H01Q 1/185** (2013.01)

Citation (applicant)

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- ROBERT C. HANSEN: "Wiley Series in Microwave and Optical Engineering", vol. 2, 12 January 2010, JOHN WILEY & SONS, article "Phased Array Antennas"

Citation (search report)

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- [XYI] US 2497065 A 19500214 - BRADDON FREDERICK D
- [YA] DE 1498041 A1 19701217 - TELEFUNKEN PATENT
- [A] US 2009033576 A1 20090205 - SMOYER CLINTON J [US], et al
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Designated contracting state (EPC)

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2634860 A1 20130904; EP 2634860 B1 20181219

DOCDB simple family (application)

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