

Title (en)

CALIBRATION DEVICE FOR A SWITCHABLE ANTENNA ARRAY AND CORRESPONDING OPERATING METHOD

Title (de)

KALIBRIERVORRICHTUNG FÜR EIN UMSCHALTbares ANTENNEN-ARRAY SOWIE EIN ZUGEHÖRIGES BETRIEBSVERFAHREN

Title (fr)

DISPOSITIF DE CALIBRAGE POUR UN RESEAU D'ANTENNES COMMUTABLE ET PROCEDE POUR FAIRE FONCTIONNER CE DISPOSITIF

Publication

**EP 1530816 B9 20071003 (DE)**

Application

**EP 03740191 A 20030605**

Priority

- DE 10237822 A 20020819
- EP 0305932 W 20030605

Abstract (en)

[origin: US2004032366A1] Calibration device for a switchable antenna array, distinguished by the following improvements: at least two inputs (19.1, 19.2, 19.3, 19.4) of two or more available inputs (19) of the beam forming network (17; 17') are fed simultaneously and/or jointly and/or in the same phase, and the antenna elements (3, 3') have been trimmed in advance in order to produce intermediate lobes (20) or further different azimuth beam directions, such that the individual lobes (16, 116) which are produced when at least two inputs (19.1, 19.2, 19.3, 19.4) are connected can be added with the correct phase.

IPC 8 full level

**H01Q 3/40** (2006.01); **H01Q 3/26** (2006.01)

CPC (source: EP KR US)

**H01Q 3/22** (2013.01 - KR); **H01Q 3/26** (2013.01 - KR); **H01Q 3/267** (2013.01 - EP US); **H01Q 3/40** (2013.01 - EP US)

Cited by

DE102014011883A1; EP2985836A1; US9853344B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

**US 2004032366 A1 20040219; US 7132979 B2 20061107**; AT E329381 T1 20060615; AU 2003297841 A1 20040329; CN 2800506 Y 20060726; DE 10237822 B3 20040722; DE 50303722 D1 20060720; EP 1530816 A1 20050518; EP 1530816 B1 20060607; EP 1530816 B9 20071003; ES 2263987 T3 20061216; KR 100893656 B1 20090417; KR 20050033065 A 20050408; WO 2004023601 A1 20040318

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