

Title (en)

PATCH ANTENNA AND METHOD FOR TUNING THE FREQUENCY OF SUCH A PATCH ANTENNA

Title (de)

PATCHANTENNE SOWIE VERFAHREN ZUR FREQUENZABSTIMMUNG EINER DERARTIGEN PATCHANTENNE

Title (fr)

ANTENNE PATCH ET PROCÉDÉ DE RÉGLAGE DE FRÉQUENCE D'UNE ANTENNE PATCH DE CE TYPE

Publication

**EP 2676326 B1 20141217 (DE)**

Application

**EP 12705978 A 20120209**

Priority

- DE 102011011494 A 20110217
- EP 2012000588 W 20120209

Abstract (en)

[origin: WO2012110215A1] The invention relates to an improved patch antenna characterized by the following features: at least one slit arrangement (15) is provided at at least one edge segment (13c) in the circumferential direction and preferably at at least two and in particular four edge segments (13c) of the emitter surface (7) offset in the circumferential direction, wherein said arrangement extends from the associated edge segment (13c); the slit arrangement (15) comprises at least one closed slit cut-out (115; 115a, 115b,...,115f) in the slit direction (15') facing away from the associated edge segment (13c); and the at least one closed slit cut-out (115; 115a, 115b,...,115f) is closed by an electrically conductive transverse or tuning bar (17) facing toward the associated edge segment (13c).

IPC 8 full level

**H01Q 1/22** (2006.01); **H01Q 9/04** (2006.01); **H01Q 9/14** (2006.01)

CPC (source: EP)

**H01Q 1/2208** (2013.01); **H01Q 9/0428** (2013.01); **H01Q 9/0442** (2013.01); **H01Q 9/14** (2013.01)

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

DOCDB simple family (publication)

**WO 2012110215 A1 20120823**; DE 102011011494 A1 20120906; EP 2676326 A1 20131225; EP 2676326 B1 20141217

DOCDB simple family (application)

**EP 2012000588 W 20120209**; DE 102011011494 A 20110217; EP 12705978 A 20120209