

Title (en)

Lead-through antenna with a single- or double-ridge waveguide

Title (de)

Antenne zur Wanddurchführung mit Wellenleiter mit einfachen oder doppelten Kanten

Title (fr)

Antenne de traversée de paroi à guide d'ondes à simple ou double arêtes

Publication

**EP 2595239 A1 20130522 (FR)**

Application

**EP 12193517 A 20121121**

Priority

FR 1160603 A 20111121

Abstract (en)

The antenna has a radiating waveguide (20) adapted to pass through a wall (3) having an inner surface (31) and an outer surface (32). One end (21) of the radiating waveguide is in level with the outer surface of the wall. An excitation waveguide (10) is coupled to the radiating waveguide, where the excitation waveguide is arranged along the inner surface of the wall and arranged as a ridge waveguide. The excitation waveguide is arranged as a waveguide with double edges and filled with a dielectric material. An independent claim is also included for an antenna excitation system.

Abstract (fr)

L'invention concerne une antenne de traversée de paroi comprenant : - un guide d'ondes rayonnant (20) adapté pour traverser une paroi (3) comportant une surface interne (31) et une surface externe (32), une extrémité (21) du guide d'ondes rayonnant (20) venant affleurer la surface externe (32) de la paroi (3) ; - un guide d'ondes d'excitation (10) couplé au guide d'ondes rayonnant (20) en étant agencé le long de la surface interne (31) de la paroi (3); caractérisée en ce que le guide d'onde d'excitation (10) est un guide d'ondes à arête(s).

IPC 8 full level

**H01P 5/02** (2006.01); **H01Q 1/28** (2006.01); **H01Q 13/06** (2006.01)

CPC (source: EP)

**H01P 5/024** (2013.01); **H01Q 1/286** (2013.01); **H01Q 13/06** (2013.01)

Citation (search report)

- [A] US 2756419 A 19560724 - FOLEY WILLIAM V, et al
- [A] US 3579242 A 19710518 - GRANTHAM WILLIAM L
- [A] EP 0392999 A1 19901017 - ERICSSON TELEFON AB L M [SE]

Cited by

US10658761B2; WO2017158020A1

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 2595239 A1 20130522; EP 2595239 B1 20150325**; FR 2983000 A1 20130524; FR 2983000 B1 20140103

DOCDB simple family (application)

**EP 12193517 A 20121121**; FR 1160603 A 20111121