

Title (en)

Antenna assembly for emitting microwave pulses

Title (de)

Antennenanordnung zur Abstrahlung von Mikrowellen-Impulsen

Title (fr)

Agencement d'antennes pour rayonnement de micro-ondes

Publication

**EP 2546928 B1 20140618 (DE)**

Application

**EP 12004917 A 20120703**

Priority

DE 102011107036 A 20110709

Abstract (en)

[origin: EP2546928A1] The antenna arrangement (2) has planar electrodes (3,4) that are connected with an inductor (7) and a generator (1) for generation of excitation pulse. A semiconductor diode (6) is provided in a region of a radiation element (5) such that the pulse type signal is radiated by the radiation element from the predetermined breakdown voltage. The semiconductor diode is provided with an avalanche breakdown characteristic. Multiple reflectors are arranged laterally to the radiation element.

IPC 8 full level

**H01Q 9/00** (2006.01); **F41H 13/00** (2006.01); **H01Q 5/00** (2006.01); **H01Q 5/25** (2015.01); **H01Q 19/10** (2006.01); **H01Q 21/00** (2006.01); **H01Q 21/06** (2006.01); **H03B 11/10** (2006.01); **H03K 3/57** (2006.01)

CPC (source: EP US)

**F41H 13/0068** (2013.01 - EP US); **F41H 13/0093** (2013.01 - EP US); **H01Q 5/25** (2015.01 - EP US); **H01Q 9/005** (2013.01 - EP US); **H01Q 19/10** (2013.01 - EP US); **H01Q 21/0031** (2013.01 - EP US); **H01Q 21/062** (2013.01 - EP US)

Cited by

DE102018004568A1; EP3995776A1; US11209247B2

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)

**EP 2546928 A1 20130116**; **EP 2546928 B1 20140618**; DE 102011107036 A1 20130110; RU 2012126544 A 20131227; RU 2590317 C2 20160710; US 2013009850 A1 20130110; US 8982010 B2 20150317

DOCDB simple family (application)

**EP 12004917 A 20120703**; DE 102011107036 A 20110709; RU 2012126544 A 20120625; US 201213544046 A 20120709