

Title (en)

Transmit/receive radiofrequency antenna with modifiable transmit/receive parameters

Title (de)

Hochfrequenzantenne zum Senden/Empfangen mit veränderlichen Sende/Empfangs-Parametern

Title (fr)

Antenne radiofréquence d'émission-réception à paramètres d'émission-réception modifiables

Publication

EP 2169764 B1 20160713 (FR)

Application

EP 09170873 A 20090921

Priority

FR 0856497 A 20080926

Abstract (en)

[origin: EP2169764A1] The antenna e.g. bipolar slot antenna (102), has transmission and reception zones formed by liquid volumes (106.1, 106.2). A connection unit (104) connects the antenna to a data transmission/reception circuit. A set of electrodes (112) modifies the shape of the liquid volumes, where the electrodes use electromagnetic forces when the liquid is magnetorheological liquid, or electrostatic forces when the liquid is Indalloy 46L (RTM: gallium-indium alloys), mercury or water with additive e.g. acid. A control unit controls a liquid volume deforming unit.

IPC 8 full level

H01Q 1/24 (2006.01); **H01Q 3/01** (2006.01); **H01Q 5/00** (2015.01); **H01Q 9/14** (2006.01)

CPC (source: EP US)

H01Q 1/243 (2013.01 - EP US); **H01Q 3/01** (2013.01 - EP US); **H01Q 9/145** (2013.01 - EP US)

Citation (examination)

- US 2005057415 A1 20050317 - RAWNICK JAMES J [US], et al
- EP 2139066 A1 20091230 - FRANCE TELECOM [FR]

Cited by

CN105075004A; US10090582B2; US10090579B2; WO2015058543A1

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

EP 2169764 A1 20100331; **EP 2169764 B1 20160713**; FR 2936654 A1 20100402; FR 2936654 B1 20101022; JP 2010081612 A 20100408; JP 5426297 B2 20140226; US 2010095762 A1 20100422; US 8730109 B2 20140520

DOCDB simple family (application)

EP 09170873 A 20090921; FR 0856497 A 20080926; JP 2009221355 A 20090925; US 56487309 A 20090922