

Title (en)

Receiver antenna for circular polarised satellite radio signals

Title (de)

Empfangsantenne für Zirkular Polarisierte Satellitenfunksignale

Title (fr)

Antenne de réception pour signaux radio par satellite polarisés circulaires

Publication

EP 2424036 B1 20180822 (DE)

Application

EP 11157768 A 20110310

Priority

DE 102010035934 A 20100831

Abstract (en)

[origin: EP2424036A2] The antenna has a horizontally oriented conductor loop arranged over an electrically conductive base surface (6). The loop is configured as a loop emitter (2) by a polygonal or circularly closed loop extending in a horizontal plane with height (h) above the base surface, where height is lower than one-fifth of free-space wavelength. The emitter forms a resonance structure, and is electrically excited by an electromagnetic exciter. A vertical emitter (4) is electromagnetically coupled to the loop emitter and the base surface to facilitate vertically oriented fractions of electromagnetic field. The loop emitter is designed as a passive resonant structure.

IPC 8 full level

H01Q 1/32 (2006.01); **H01Q 7/00** (2006.01); **H01Q 21/24** (2006.01); **H01Q 21/29** (2006.01)

CPC (source: EP US)

H01Q 1/3275 (2013.01 - EP US); **H01Q 7/00** (2013.01 - EP US); **H01Q 7/005** (2013.01 - EP US); **H01Q 21/24** (2013.01 - EP US); **H01Q 21/29** (2013.01 - EP US)

Cited by

EP2693565A1; EP3382795A1; CN108695587A; US10418710B2; US10622710B2; US10680316B2; US9331388B2; WO2017191183A1; WO2017191161A1

Designated contracting state (EPC)

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EP 2424036 A2 20120229; **EP 2424036 A3 20120606**; **EP 2424036 B1 20180822**; DE 102010035934 A1 20120301; EP 2592691 A1 20130515; EP 2592691 B1 20140723; US 2012050120 A1 20120301; US 8643556 B2 20140204

DOCDB simple family (application)

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