

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

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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

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