

Title (en)

Antenna for receiving circular polarised satellite radio signals

Title (de)

Antenne für den Empfang Zirkular Polarisierter Satellitenfunksignale

Title (fr)

Antenne pour la réception de signaux satellite circulaires polarisés

Publication

EP 2296227 A3 20110629 (DE)

Application

EP 10173919 A 20100824

Priority

DE 102009040910 A 20090910

Abstract (en)

[origin: EP2296227A2] The antenna has a conducting loop that is designed as ring circuit emitter (2) with a height (h) over a conducting surface area (6) by a polygonal or circular closed ring circuit in horizontal plane. The ring circuit emitter forms a resonance structure and is electrically excited by an electromagnetic excitation unit (3).

IPC 8 full level

H01Q 7/00 (2006.01); **H01Q 21/24** (2006.01)

CPC (source: EP US)

H01Q 3/30 (2013.01 - EP US); **H01Q 7/00** (2013.01 - EP US); **H01Q 21/24** (2013.01 - EP US); **H01Q 21/28** (2013.01 - EP US)

Citation (search report)

- [XY] US 5977921 A 19991102 - NICCOLAI LUCA [IT], et al
- [Y] US 2003063038 A1 20030403 - NAKANO HISAMATSU [JP], et al
- [Y] US 2003174098 A1 20030918 - NORO JUNICHI [JP], et al
- [Y] EP 1986269 A1 20081029 - MITSUMI ELECTRIC CO LTD [JP]
- [Y] EP 0439677 A2 19910807 - BOSCH GMBH ROBERT [DE]
- [Y] GB 1105354 A 19680306 - NORTHROP CORP
- [EL] EP 2226895 A2 20100908 - DELPHI DELCO ELECT EUROPE GMBH [DE]
- [Y] NAKANO H ET AL: "Mesh Antennas for Dual Polarization", IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, IEEE SERVICE CENTER, PISCATAWAY, NJ, US, vol. 49, no. 3, 1 March 2001 (2001-03-01), XP011004036, ISSN: 0018-926X

Cited by

EP2693565A1; CN109075434A; EP2424036A3; CN114361770A; US8643556B2; US10418710B2; US9331388B2; US9196963B2; EP3382795A1; CN108695587A; EP3537533A1; EP2538490A1; EP3483983A1

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 SE SI SK SM TR

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

EP 2296227 A2 20110316; EP 2296227 A3 20110629; EP 2296227 B1 20180221; DE 102010035932 A1 20110421; DE 102010035932 B4 20181220; EP 2458679 A2 20120530; EP 2458679 A3 20140326; EP 2458679 B1 20160727; EP 2458680 A2 20120530; EP 2458680 A3 20140326; EP 2458680 B1 20160727; US 2011215978 A1 20110908; US 2013257678 A1 20131003; US 2014203979 A1 20140724; US 8599083 B2 20131203; US 9287623 B2 20160315; US 9300047 B2 20160329

DOCDB simple family (application)

EP 10173919 A 20100824; DE 102010035932 A 20100831; EP 11010230 A 20100824; EP 11010231 A 20100824; US 201313826875 A 20130314; US 201313827097 A 20130314; US 87510110 A 20100902