

Title (en)

Broadband monopole antenna for vehicles for two frequency bands separated by a frequency gap in the decimeter wavelength

Title (de)

Breitband-Monopolantenne für zwei durch eine Frequenzlücke getrennte Frequenzbänder im Dezimeterwellenbereich für Fahrzeuge

Title (fr)

Antenne monopôle à large bande pour deux bandes de fréquences séparées par un écart de fréquence dans la plage d'ondes décimétriques pour des véhicules

Publication

**EP 2784874 A3 20141203 (DE)**

Application

**EP 14159092 A 20140312**

Priority

DE 102013005001 A 20130324

Abstract (en)

[origin: EP2784874A2] The antenna (0) has an upper band monopole (1), a lower band monopole (2) and an electrically conductive structure i.e. electrically conducting foil, oriented above a conducting base surface (6). A triangular structure (4) is formed at a lower end of the antenna. A roof capacitor (10) designed as a rectangular structure (16) is arranged below an upper end of the antenna. The triangular structure and the rectangular structure are connected inductively with high impedance by a conductor strip (15) for separating radio signals in the upper band.

IPC 8 full level

**H01Q 1/32** (2006.01); **H01Q 5/00** (2006.01); **H01Q 5/10** (2015.01); **H01Q 9/36** (2006.01); **H01Q 9/40** (2006.01)

CPC (source: EP US)

**H01Q 1/27** (2013.01 - US); **H01Q 1/3275** (2013.01 - EP US); **H01Q 5/321** (2015.01 - EP US); **H01Q 9/36** (2013.01 - EP US);  
**H01Q 9/40** (2013.01 - EP US); **H01Q 9/46** (2013.01 - EP US)

Citation (search report)

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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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2784874 A2 20141001; EP 2784874 A3 20141203; EP 2784874 B1 20160720;** DE 102013005001 A1 20140925;  
US 2014285387 A1 20140925

DOCDB simple family (application)

**EP 14159092 A 20140312;** DE 102013005001 A 20130324; US 201414221669 A 20140321