

Title (en)

Multi-range antenna for a motor vehicle

Title (de)

Mehrbereichsantenne für ein Kraftfahrzeug

Title (fr)

Antenne multi-bandes pour véhicule automobile

Publication

**EP 2858176 B1 20160518 (DE)**

Application

**EP 14190846 A 20120809**

Priority

- DE 102011113725 A 20110917
- EP 12745639 A 20120809

Abstract (en)

[origin: WO2013037445A1] The invention relates to a multi-band aerial (1), more particularly for use in a motor vehicle, consisting of: a cone emitter (3) with a symmetrical axis (R) for mounting the cone emitter (3) by the tapering end perpendicular to a ground surface (2); a first monopole emitter (12), which is adjoined, in the direction of the symmetrical axis (R), to the cone emitter, wherein the first monopole emitter (12) is electrically connected to a side surface (9) of the cone emitter (3).

IPC 8 full level

**H01Q 1/32** (2006.01); **H01Q 9/28** (2006.01); **H01Q 9/40** (2006.01)

CPC (source: EP)

**H01Q 1/32** (2013.01); **H01Q 9/28** (2013.01); **H01Q 9/40** (2013.01)

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

DOCDB simple family (publication)

**DE 102011113725 A1 20130321**; CN 103797643 A 20140514; CN 103797643 B 20161019; EP 2756550 A1 20140723; EP 2756550 B1 20151216; EP 2858176 A1 20150408; EP 2858176 B1 20160518; WO 2013037445 A1 20130321

DOCDB simple family (application)

**DE 102011113725 A 20110917**; CN 201280045044 A 20120809; EP 12745639 A 20120809; EP 14190846 A 20120809; EP 2012003396 W 20120809