

Title (en)

MULTI-RANGE ANTENNA FOR A RECEIVER AND/OR TRANSMITTER DEVICE FOR MOBILE USE

Title (de)

MEHRBEREICHSANTENNE FÜR EINE EMPFANGS- UND/ODER SENDEEINRICHTUNG FÜR DEN MOBILEN EINSATZ

Title (fr)

ANTENNE À PLUSIEURS GAMMES DE FRÉQUENCES POUR UN DISPOSITIF ÉMETTEUR ET/OU RÉCEPTEUR DESTINÉ À UNE UTILISATION MOBILE

Publication

EP 3108535 A1 20161228 (DE)

Application

EP 15705002 A 20150210

Priority

- DE 202014001466 U 20140218
- DE 202014002207 U 20140310
- EP 2015052752 W 20150210

Abstract (en)

[origin: WO2015124463A1] The invention relates to a multi-range antenna for a receiver and/or transmitter device for mobile use, in particular in motor vehicles, composed of an insulating carrier plate for accommodating electric connecting elements and for mounting the antenna, wherein a copper-laminated circuit board is arranged on the carrier plate, extending away essentially perpendicularly from the latter, and having a hood-like housing composed of dielectric material. According to the invention, the circuit board has copper-laminated structures on both sides, wherein a mobile radio mono-pole emitter structure and a connecting face structure for a CB rod emitter which can be secured to the upper side of the hood-like housing are formed on a first circuit board side in such a way that the electrical field between the connecting face structure and the mono-pole emitter structure is polarised orthogonally, wherein both emitters are separated spatially.

IPC 8 full level

H01Q 1/12 (2006.01); **H01Q 1/32** (2006.01); **H01Q 1/38** (2006.01); **H01Q 5/40** (2015.01); **H01Q 9/30** (2006.01)

CPC (source: EP)

H01Q 1/1214 (2013.01); **H01Q 1/3275** (2013.01); **H01Q 1/38** (2013.01); **H01Q 5/40** (2015.01); **H01Q 9/30** (2013.01); **H01Q 9/42** (2013.01); **H01Q 13/10** (2013.01); **H01Q 21/28** (2013.01)

Citation (search report)

See references of WO 2015124463A1

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)

DE 202014002207 U1 20140409; EP 3108535 A1 20161228; EP 3108535 B1 20171227; EP 3108535 B8 20180801; WO 2015124463 A1 20150827

DOCDB simple family (application)

DE 202014002207 U 20140310; EP 15705002 A 20150210; EP 2015052752 W 20150210