

Title (en)

ANTENNA ASSEMBLY FOR A MOTOR VEHICLE

Title (de)

ANTENNENBAUGRUPPE FÜR EIN KRAFTFAHRZEUG

Title (fr)

ENSEMBLE ANTENNE POUR UN VÉHICULE MOTORISÉ

Publication

**EP 2311137 B1 20180418 (EN)**

Application

**EP 09786629 A 20090716**

Priority

- IB 2009053104 W 20090716
- GB 0813019 A 20080717

Abstract (en)

[origin: GB2461896A] An antenna assembly or a method of its installation comprises an antenna on a flexible circuit board 14 mounted on the front surface of a support structure 12 formed of dielectric material. The rear surface of the support structure 12 includes at least one mounting element 17 extending away from the rear surface. The mounting element 17 is used to secure the antenna in a spaced manner relative to a motor vehicle body 52 and a signal cable 18 extends through the support 12 and is connected to the circuit board 14. The front surface of the support 12 may be curved to conform to the space available and for a constant gap between the antenna and the vehicle body. Buttresses and bump stops 26 and a foam sealing strip may be arranged between the antenna and an external vehicle component such as a bumper 54. The support structure 12 may be formed as a one piece moulding which includes web, reinforcing ribs, fins and buttresses. The flexible circuit board 14 may be covered and sealed by a film of material secured to the board 14 by an adhesive and/or fasteners. The signal cable 18 may extend into the body of the vehicle to be connected to an amplifier 56 which is in the proximity of the antenna assembly.

IPC 8 full level

**H01Q 1/12** (2006.01)

CPC (source: EP GB)

**H01Q 1/12** (2013.01 - EP); **H01Q 1/3283** (2013.01 - GB); **H01Q 1/38** (2013.01 - GB)

Cited by

US11552389B2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**GB 0813019 D0 20080820**; **GB 2461896 A 20100120**; **GB 2461896 B 20130424**; EP 2311137 A2 20110420; EP 2311137 B1 20180418; WO 2010007591 A2 20100121; WO 2010007591 A3 20100311

DOCDB simple family (application)

**GB 0813019 A 20080717**; EP 09786629 A 20090716; IB 2009053104 W 20090716