

Title (en)

Antenna system in the aperture of an electrical conducting car body

Title (de)

Antennenanordnung in der Apertur einer elektrisch leitenden Fahrzeug-Karosserie

Title (fr)

Système d'antennes dans l'aperture d'une carrosserie de véhicule conductrice d'électricité

Publication

EP 1487052 B1 20100512 (DE)

Application

EP 03001676 A 20030125

Priority

EP 03001676 A 20030125

Abstract (en)

[origin: EP1487052A1] The arrangement has an aperture length (L) selected to be so small that the resonant frequency of the aperture (1) exceeds the center frequency of the working frequency range, a capacitive tuning element for tuning the aperture resonance to a resonant frequency close to the center frequency and a coupling element for coupling the antenna connection points to the electromagnetic fields in the aperture with minimal residual inductive effects of magnetic reactive power.

IPC 8 full level

H01Q 1/32 (2006.01); **H01Q 1/12** (2006.01); **H01Q 13/10** (2006.01)

CPC (source: EP)

H01Q 1/1271 (2013.01); **H01Q 1/3275** (2013.01); **H01Q 13/103** (2013.01)

Cited by

CN113169453A; US10270178B2; WO2017211536A1; DE102016009712A1; WO2018029273A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)

EP 1487052 A1 20041215; EP 1487052 B1 20100512; AT E467922 T1 20100515; DE 50312708 D1 20100624

DOCDB simple family (application)

EP 03001676 A 20030125; AT 03001676 T 20030125; DE 50312708 T 20030125