

Title (en)

Roof-mounted multifunctional car antenna

Title (de)

Mehrfunktionelle Dachantenne für Kraftfahrzeuge

Title (fr)

Antenne multi-fonctionnelle montée sur le toit d'un véhicule

Publication

EP 1286414 A1 20030226 (EN)

Application

EP 02016135 A 20020719

Priority

IT RE20010081 A 20010730

Abstract (en)

A multifunction antenna particularly suited for the roof panel of cars characterised by the fact that in the container (1) the following functions are comprised: the radio reception function in AM and FM bands (10), the GPS (Global Positioning System) signal reception function (6) of reception/transmission of GSM (Global System for Mobile Communications)/DCS Dual Band (12) telephone signals and the mixing functions of various signals and of the required feedings on a unique coaxial connector (4); the multifunction antenna being interfaced to an ITN (Info-Telematic Node) system at the entry (20) of which a signal demixer (21) is placed, said signal demixer is interconnected to said coaxial connector (4) through a unique screened coaxial cable (19) through which all the mixed signals and the properly measured feedings are transmitted and/or received. <IMAGE>

IPC 1-7

H01Q 1/32; **H01Q 21/28**; **H01Q 25/00**; **H01Q 1/12**

IPC 8 full level

H01Q 1/12 (2006.01); **H01Q 1/32** (2006.01); **H01Q 21/28** (2006.01); **H01Q 25/00** (2006.01)

CPC (source: EP)

H01Q 1/1214 (2013.01); **H01Q 1/3275** (2013.01); **H01Q 21/28** (2013.01); **H01Q 25/00** (2013.01)

Citation (search report)

- [X] US 5805113 A 19980908 - OGINO TOSHIKAZU [JP], et al
- [A] WO 9815075 A2 19980409 - BOSCH GMBH ROBERT [DE], et al
- [A] EP 0747993 A2 19961211 - HARADA IND CO LTD [JP]

Cited by

EP2242342A3; EP1465352A3; FR3018636A1; EP1441413A1; EP1557905A1; EP1689025A1; DE102009051605A1; CN102714349A; GB2400497B; DE102012208303A1; DE102012208303B4; EP1801932A1; EP1569297A1; FR2866988A1; US9966659B2; US7019701B2; US7119752B2; WO2006108624A1; WO2012136306A1; WO2011051454A1; WO2015136178A1; US7252513B1; US7183992B2; US9270018B2; DE102015210449A1; US9178272B2; DE102009051605B4; WO2006087225A1; WO2021089223A1; EP1612886A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 1286414 A1 20030226; IT RE20010081 A0 20010730; IT RE20010081 A1 20030130

DOCDB simple family (application)

EP 02016135 A 20020719; IT RE20010081 A 20010730