

Title (en)

Antenna in a ventilation grille of a vehicle

Title (de)

Antenne in einem Lüftungsgitter eines Fahrzeuges

Title (fr)

Antenne dans une grille d'aération d'un véhicule

Publication

EP 1471603 A3 20050105 (DE)

Application

EP 04007012 A 20040324

Priority

DE 10315641 A 20030404

Abstract (en)

[origin: EP1471603A2] One of the slats of the ventilator grille for use in a road vehicle may be used as a monopole (2) forming the radiating and receiving part of the antenna assembly (1). One end of the monopole slat is connected to the central portion of a high-frequency-circuit ballast member (3) at right-angles to it. The ballast member is a flat strip with a flange (4) on the central portion, bent at right-angles to the plane of the strip. A crimped connection (5) to a coaxial feed cable (6) is connected to the junction point.

IPC 1-7

H01Q 9/38; **H01Q 1/38**; **H01Q 1/32**

IPC 8 full level

H01Q 1/32 (2006.01); **H01Q 1/38** (2006.01); **H01Q 9/38** (2006.01)

CPC (source: EP US)

H01Q 1/3291 (2013.01 - EP US); **H01Q 1/38** (2013.01 - EP US); **H01Q 9/38** (2013.01 - EP US)

Citation (search report)

- [PX] EP 1306924 A2 20030502 - ALPS ELECTRIC CO LTD [JP]
- [XD] DE 19962736 A1 20010726 - HIRSCHMANN ELECTRONICS GMBH [DE]
- [XY] US 6054955 A 20000425 - SCHLEGEL JR HERBERT [US], et al
- [X] US 2003034932 A1 20030220 - HUEBNER DONALD A [US], et al
- [Y] EP 1206005 A1 20020515 - HIRSCHMANN ELECTRONICS GMBH [DE]
- [A] US 4516127 A 19850507 - SIWIAK KAZIMIERZ [US]
- [X] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 11 29 November 1996 (1996-11-29)

Cited by

DE102005033177A1; US7304614B2

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 PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1471603 A2 20041027; **EP 1471603 A3 20050105**; US 2004212539 A1 20041028; US 7009569 B2 20060307

DOCDB simple family (application)

EP 04007012 A 20040324; US 81481704 A 20040331