

Title (en)

Planar microstrip antenna for motor-vehicle system

Title (de)

Flach- Mikrostreifenleiterantenne für ein Kraftfahrzeugsystem

Title (fr)

Antenne microruban plane d'un système pour véhicule

Publication

**EP 1108616 A3 20031203 (EN)**

Application

**EP 00125605 A 20001122**

Priority

IT RE990059 U 19991213

Abstract (en)

[origin: EP1108616A2] A planar microstrip antenna suitable for motor-vehicle systems operating in dual-band resonance frequency. it comprises a radiant element (1), a mass plane (2) parallel to said radiant element (1), a shorting lead (3) that connects said radiant element to said mass plane, and feeding means fixed to a coaxial cable (8). Said radiant element (1) has a configuration proportioned for a first resonance frequency, and is provided with at least a slot (6) located in proximity with and parallel to its edge (5). Said slot has a proportional extension according to the resonance frequency desired. <IMAGE>

IPC 1-7

**B60R 11/02**; **H01Q 21/06**

IPC 8 full level

**H01Q 1/12** (2006.01); **H01Q 5/00** (2006.01); **H01Q 5/357** (2015.01); **H01Q 9/04** (2006.01)

CPC (source: EP)

**H01Q 1/1271** (2013.01); **H01Q 5/357** (2015.01); **H01Q 9/0421** (2013.01); **H01Q 9/0457** (2013.01)

Citation (search report)

- [Y] US 4771291 A 19880913 - LO YUEN T [US], et al
- [Y] WO 9744856 A1 19971127 - ALLGON AB [SE], et al
- [Y] WO 9928990 A1 19990610 - TOSHIBA KK [JP], et al
- [Y] EP 0526643 A1 19930210 - MITSUBISHI ELECTRIC CORP [JP], et al
- [Y] US 5818394 A 19981006 - AMINZADEH MEHRAN [DE], et al
- [Y] SALONEN P ET AL: "New slot configurations for dual-band planar inverted-F antenna", MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, JOHN WILEY, NEW YORK, NY, US, vol. 28, no. 5, 23 January 2001 (2001-01-23), pages 293 - 298, XP002245702, ISSN: 0895-2477
- [Y] KAGOSHIMA K ET AL: "Analysis of a planar inverted F antenna fed by electromagnetic coupling", PROCEEDINGS OF THE ANTENNAS AND PROPAGATION SOCIETY INTERNATIONAL SYMPOSIUM (APSIS), CHICAGO, JULY 20 - 24, 1992, NEW YORK, IEEE, US, vol. 2, 18 July 1992 (1992-07-18), pages 1702 - 1705, XP010065570, ISBN: 0-7803-0730-5

Cited by

EP1575125A1; KR20030089825A; EP2648276A4; RU2650732C2; US7109921B2; US8164526B1; US7482984B2; US8316105B2; US8313684B1; US9118114B2; EP1351334A1; JP2022104229A; WO03052869A1; WO2008004041A1; US6680705B2; US11862873B2; CN112585820A; EP3832801A4; US7755547B2; US8212729B2

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