Title (en)

Planar antenna for motor-vehicles

Title (de)

Planare Antenne für Motorfahrzeuge

Title (fr)

Antenne plane pour véhicules à moteur

Publication

EP 1091444 A3 20020417 (EN)

Application

EP 00121650 A 20001004

Priority

IT RE990101 A 19991008

Abstract (en)

[origin: EP1091444A2] A planar microstrip antenna is adopted for motor-car systems for both cellular telephony and other applications. In the field of cellular telephony, the antenna is utilizable in the present frequencies of 800/900 MHz (GSM, ETACS, AMPS, PCD) and the higher ones of 2.5 GHz (DCS, UMPTS, PCN, PDC 1.5); besides, it is also utilizable for applications other than telephony, such as: reception in L, DAB, GPS band and the like and at higher frequencies up to 6 GHz, also for Telepass type transponder systems and the like. <IMAGE> <IMAGE>

IPC 1-7

H01Q 1/12; H01Q 1/32; H01Q 9/04

IPC 8 full level

H01Q 1/12 (2006.01); **H01Q 1/32** (2006.01); **H01Q 9/04** (2006.01)

CPC (source: EP)

H01Q 1/1271 (2013.01); **H01Q 1/3291** (2013.01); **H01Q 9/0421** (2013.01); **H01Q 9/0457** (2013.01)

Citation (search report)

- [Y] EP 0801435 A2 19971015 - FUBA AUTOMOTIVE GMBH [DE]
- [A] EP 0526643 A1 19930210 - MITSUBISHI ELECTRIC CORP [JP], et al
- [A] EP 0851528 A2 19980701 - GEN MOTORS CORP [US]
- [Y] PATENT ABSTRACTS OF JAPAN vol. 009, no. 295 (E - 360) 21 November 1985 (1985-11-21)
- [A] KENICHI KAGOSHIMA 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. 3, 20 July 1992 (1992-07-20), pages 1702 - 1705, XP000340013, ISBN: 0-7803-0730-5

Cited by

DE102004041014B3; FR2825517A1; DE102004027692A1; JPWO2019151407A1; EP1624527A4; US11522278B2; US7365685B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1091444 A2 20010411; **EP 1091444 A3 20020417**; **EP 1091444 B1 20031217**; DE 60007254 D1 20040129; DE 60007254 T2 20040930; IT 1309775 B1 20020130; IT RE990101 A0 19991008; IT RE990101 A1 20010408

DOCDB simple family (application)

EP 00121650 A 20001004; DE 60007254 T 20001004; IT RE990101 A 19991008