

Title (en)
Multiple-band antenna with patch and slot structures

Title (de)
Multibandantenne mit Patch- und Schlitzstrukturen

Title (fr)
Antenne multi-bandes à pastille du type microruban comprenant des fentes

Publication
EP 2320517 A1 20110511 (EN)

Application
EP 10185738 A 20021128

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07123010 20021128 EP

Priority
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• EP 02782564 A 20021128

Abstract (en)
A multiple-band antenna having first and second operating frequency bands is provided. The antenna includes a first patch structure associated primarily with the first operating frequency band, a second patch structure electrically coupled to the first patch structure and associated primarily with the second operating frequency band, a first slot structure disposed between a first portion of the first patch structure and the second patch structure and associated primarily with the first operating frequency band, and a second slot structure disposed between a second portion of the first patch structure and the second patch structure and associated primarily with the second operating frequency band. A mounting structure for the multiple-band antenna is also provided. The mounting structure includes a first surface and a second surface opposite to and overlapping the first surface. The first and second patch structures are mounted to the first surface, and a feeding point and ground point, respectively connected to the first and second patch structures, are mounted to the second surface.

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Citation (search report)
• [A] EP 1026774 A2 20000809 - SIEMENS AG [DE]
• [A] EP 1241733 A1 20020918 - CIT ALCATEL [FR]
• [A] US 4692769 A 19870908 - GEGAN MICHAEL J [US]
• [A] EP 1113524 A2 20010704 - NOKIA MOBILE PHONES LTD [FI]
• [A] SITTIRONNARIT T ET AL: "A DUAL-BAND VEHICULAR PLANAR INVERTED-F ANTENNA FOR ULTRA HIGH FREQUENCY (UHF) APPLICATIONS", VTC SPRING 2002. IEEE 55TH. VEHICULAR TECHNOLOGY CONFERENCE. PROCEEDINGS. BIRMINGHAM, AL, MAY 6 - 9, 2002; [IEEE VEHICULAR TECHNOLOGY CONFERENCE], NEW YORK, NY : IEEE, US, vol. 1, 6 May 2002 (2002-05-06), pages 345 - 349, XP001210405, ISBN: 978-0-7803-7484-3

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