

Title (en)
Multi-band slot-strip antenna

Title (de)
Mehrband-Antenne mit Schlitzstreifen

Title (fr)
Antenne à fente à barrette multibande

Publication
EP 1973197 A1 20080924 (EN)

Application
EP 07104442 A 20070319

Priority
EP 07104442 A 20070319

Abstract (en)
A multi-band antenna (300) includes a planar conductive layer (302) that comprises a conductive region (308) and a non-conductive region. The conductive region and the non-conductive region together define a first slot-strip structure (312), a second slot-strip structure (314) coupled to the first slot-strip structure, and a third slot-strip structure (316) coupled to the second slot-strip structure. The first slot-strip structure includes a signal feed portion (304). The second slot-strip structure includes a first signal grounding portion (306a). The third slot-strip structure includes a second signal grounding portion (306b).

IPC 8 full level
H01Q 9/04 (2006.01); **H01Q 5/10** (2015.01); **H01Q 5/371** (2015.01); **H01Q 5/385** (2015.01); **H01Q 1/24** (2006.01); **H01Q 1/38** (2006.01); **H01Q 5/00** (2006.01)

CPC (source: EP)
H01Q 1/243 (2013.01); **H01Q 1/38** (2013.01); **H01Q 5/371** (2013.01); **H01Q 5/385** (2015.01); **H01Q 9/0421** (2013.01); **H01Q 13/10** (2013.01)

Citation (applicant)
• US 7006048 B2 20060228 - CHANG THE-NAN [TW]
• US 6677909 B2 20040113 - SUN PEI-LUN [TW], et al
• EP 0923156 A1 19990616 - CIT ALCATEL [FR]
• US 2004085244 A1 20040506 - KADAMBI GOVIND RANGASWAMY [US], et al

Citation (search report)
• [X] EP 0923156 A1 19990616 - CIT ALCATEL [FR]
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• [Y] WO 2004049501 A1 20040610 - RESEARCH IN MOTION LTD [CA], et al
• [A] EP 1304765 A2 20030423 - FILTRONIC LK OY [FI]
• [A] KADAMBI G R ET AL: "Applications of annular and L-shaped slot in PIFA design", IEEE ANTENNAS AND PROPAGATION SOCIETY INTERNATIONAL SYMPOSIUM. 2003 DIGEST. APS. COLUMBUS, OH, JUNE 22 - 27, 2003, NEW YORK, NY : IEEE, US, vol. VOL. 4 OF 4, 22 June 2003 (2003-06-22), pages 86, XP010747200, ISBN: 0-7803-7846-6

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WO2013155015A1; US9502776B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1973197 A1 20080924; **EP 1973197 B1 20100616**; AT E471581 T1 20100715; CA 2684588 A1 20080925; CA 2684588 C 20120807; DE 602007007184 D1 20100729; WO 2008113171 A1 20080925

DOCDB simple family (application)
EP 07104442 A 20070319; AT 07104442 T 20070319; CA 2008000520 W 20080319; CA 2684588 A 20080319; DE 602007007184 T 20070319