

Title (en)
UNIPLANAR DUAL STRIP ANTENNA

Title (de)
UNIPLANARE ANTENNE MIT ZWEI STREIFEN

Title (fr)
ANTENNE MONOPLAN A DEUX BANDES

Publication
EP 1072064 B1 20070905 (EN)

Application
EP 99908248 A 19990219

Priority
• US 9903528 W 19990219
• US 7578098 P 19980223
• US 25273299 A 19990219

Abstract (en)
[origin: WO9943037A2] A uniplanar dual strip antenna (400) that has a two-dimensional structure. The antenna is comprised of a first and a second metallic strip (404, 408), each printed or etched on a thin planar substrate (412). The first and second strips (404, 408) are separated by a predetermined gap (T) and are used as conductors of a two-wire transmission line. A coplanar waveguide (416, 1520) is coupled to the uniplanar dual strip antenna (400). The coplanar waveguide (416, 1520) is constructed by printing or etching metal on the substrate. The positive terminal (420, 1522) of the waveguide is electrically connected to the first strip. The negative terminal (424, 428) of the waveguide is electrically connected to both the first and second strips. The uniplanar dual strip antenna (400) according to the present invention provides an increase in bandwidth over typical quarter wavelength or half wavelength patch antennas. Experimental results have shown that the uniplanar dual strip antenna (400) has a bandwidth of approximately 8 - 20 % that is extremely desirable for PCs and cellular phones.

IPC 8 full level
H01Q 1/00 (2006.01); **H01Q 13/08** (2006.01); **H01Q 1/24** (2006.01); **H01Q 1/36** (2006.01); **H01Q 1/38** (2006.01); **H01Q 5/00** (2006.01); **H01Q 9/04** (2006.01); **H01Q 9/06** (2006.01); **H01Q 9/40** (2006.01); **H01Q 9/42** (2006.01)

CPC (source: EP KR)
H01Q 1/243 (2013.01 - EP); **H01Q 1/36** (2013.01 - EP); **H01Q 1/38** (2013.01 - EP KR); **H01Q 1/48** (2013.01 - EP); **H01Q 9/0414** (2013.01 - EP); **H01Q 9/0421** (2013.01 - EP); **H01Q 9/0471** (2013.01 - EP); **H01Q 9/065** (2013.01 - EP); **H01Q 9/42** (2013.01 - EP)

Citation (examination)
EP 0757405 A1 19970205 - NOKIA MOBILE PHONES LTD [FI]

Designated contracting state (EPC)
DE GB IT SE

DOCDB simple family (publication)
WO 9943037 A2 19990826; WO 9943037 A3 19991007; AU 2772999 A 19990906; BR 9908158 A 20010904; CA 2321788 A1 19990826; CA 2321788 C 20080212; CN 1186852 C 20050126; CN 1299525 A 20010613; DE 69937048 D1 20071018; DE 69937048 T2 20080529; EP 1072064 A2 20010131; EP 1072064 B1 20070905; FI 117580 B 20061130; FI 20001826 A 20001023; HK 1035073 A1 20011109; JP 2002504766 A 20020212; JP 4259760 B2 20090430; KR 100683991 B1 20070220; KR 20010041218 A 20010515

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US 9903528 W 19990219; AU 2772999 A 19990219; BR 9908158 A 19990219; CA 2321788 A 19990219; CN 99805360 A 19990219; DE 69937048 T 19990219; EP 99908248 A 19990219; FI 20001826 A 20000817; HK 01105734 A 20010815; JP 2000532877 A 19990219; KR 20007009303 A 20000823