

Title (en)  
Patch antenna for the microwave range

Title (de)  
Fleckenmusterantenne für den Mikrowellenbereich

Title (fr)  
Antenne à plaque pour la bande des micro-ondes

Publication  
**EP 1195846 A3 20040128 (DE)**

Application  
**EP 01000522 A 20011008**

Priority  
DE 10049843 A 20001009

Abstract (en)  
[origin: EP1195846A2] The antenna has at least one patch-pattern resonator with a metallic patch pattern and a ground metallization. A guide is provided for supplying electromagnetic energy. The guide includes a least one first metallization piece (17) which extends on one first side surface of the resonator between the ground metallization and the metallic patch pattern. The input impedance of the antenna is varied by changing the dimension of this metallization piece. Independent claims are also included for: (a) a printed circuit board for surface mount devices (b) a mobile telecommunications device for dual or multi-band operation.

IPC 1-7  
**H01Q 1/38**; **H01Q 9/04**; **H01Q 5/00**; **H01Q 1/24**

IPC 8 full level  
**H01Q 1/24** (2006.01); **H01Q 1/38** (2006.01); **H01Q 1/40** (2006.01); **H01Q 5/00** (2006.01); **H01Q 5/40** (2015.01); **H01Q 9/04** (2006.01); **H01Q 13/08** (2006.01)

CPC (source: EP KR US)  
**H01Q 1/243** (2013.01 - EP US); **H01Q 1/38** (2013.01 - EP US); **H01Q 5/40** (2015.01 - EP US); **H01Q 9/0414** (2013.01 - EP US); **H01Q 9/0421** (2013.01 - EP US); **H01Q 9/045** (2013.01 - EP US); **H01Q 13/08** (2013.01 - KR)

Citation (search report)

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- [Y] EP 0688040 A2 19951220 - NIPPON TELEGRAPH & TELEPHONE [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 015, no. 476 (E - 1140) 4 December 1991 (1991-12-04)
- [A] J.F. ZÜRCHER, F.E. GARDIOL: "Broadband patch antennas", 1995, ARTECH HOUSE, BOSTON, US, UNITED STATES OF AMERICA, XP002263397

Cited by  
GB2380066A; GB2380066B

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**EP 1195846 A2 20020410**; **EP 1195846 A3 20040128**; CN 1357941 A 20020710; DE 10049843 A1 20020411; JP 2002185241 A 20020628; KR 20020028801 A 20020417; TW 543241 B 20030721; US 2002047804 A1 20020425; US 6545641 B2 20030408

DOCDB simple family (application)  
**EP 01000522 A 20011008**; CN 01139391 A 20011006; DE 10049843 A 20001009; JP 2001309531 A 20011005; KR 20010061874 A 20011008; TW 90129061 A 20011123; US 97331601 A 20011009