

Title (en)  
PIFA antenna with slots

Title (de)  
PIFA-Antenne mit Schlitzten

Title (fr)  
Antenne PIFA avec fentes

Publication  
**EP 1241733 B1 20080806 (FR)**

Application  
**EP 02290493 A 20020228**

Priority  
FR 0103529 A 20010315

Abstract (en)  
[origin: EP1241733A1] The chip antenna (1) has a conductor chip (2) with two sinusoidal slots. There is a short circuit connection (6) to the earth plane. The antenna has a radiating diagram between 1950 and 2100 MHz and has a bandwidth above 20 per cent.

IPC 8 full level  
**H01Q 9/04** (2006.01); **H01Q 1/24** (2006.01); **H01Q 1/38** (2006.01); **H01Q 5/00** (2006.01); **H01Q 5/10** (2015.01); **H01Q 5/357** (2015.01); **H01Q 13/10** (2006.01)

CPC (source: EP US)  
**H01Q 1/243** (2013.01 - EP US); **H01Q 5/357** (2015.01 - EP US); **H01Q 9/0421** (2013.01 - EP US); **H01Q 9/0442** (2013.01 - EP US); **H01Q 13/106** (2013.01 - EP US)

Cited by  
EP1796212A1; US7183982B2; EP2320517A1; FR3030909A1; EP1568101A4; EP1304765A3; EP1914831A3; EP1374336A4; EP1587161A1; CN101777699A; US10547115B2; US7589673B2; WO2018011635A1; WO2016097362A1; KR101012731B1; EP1576695B1; EP1573856B1; WO2009042393A1; US9130267B2; US10476134B2; US11145955B2; US7224312B2; US7283097B2; US7466271B2; US7916087B2; US8207896B2; US8531336B2; US8878731B2; US9397398B2

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 1241733 A1 20020918; EP 1241733 B1 20080806**; AT E403951 T1 20080815; CN 100388560 C 20080514; CN 1375890 A 20021023; DE 60228010 D1 20080918; FR 2822301 A1 20020920; FR 2822301 B1 20040604; JP 2002314326 A 20021025; US 2003011521 A1 20030116; US 6798382 B2 20040928

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**EP 02290493 A 20020228**; AT 02290493 T 20020228; CN 02107509 A 20020314; DE 60228010 T 20020228; FR 0103529 A 20010315; JP 2002063689 A 20020308; US 9666102 A 20020314