

Title (en)  
MULTI-FREQUENCY WIRE-PLATE ANTENNA

Title (de)  
MEHRBAND PIFA-ANTENNE

Title (fr)  
ANTENNE FIL-PLAQUE MULTIFREQUENCES

Publication  
**EP 1433223 B1 20150415 (FR)**

Application  
**EP 02751260 A 20020618**

Priority  
• FR 0202090 W 20020618  
• FR 0107940 A 20010618

Abstract (en)  
[origin: FR2826185A1] The antenna comprises two parallel electro-conductive surfaces, the second forming an earth plane. The first surface includes a cut-out, or a series of cut-outs (122). These extend along the periphery of the surface shape, thus defining an inner region (126) and an outer region (124) for the surface. The antenna comprises first (120) and second (140) electro-conductive surfaces, the second forming an earth plane lying parallel to the first. A first conducting feed wire (150) connects the first terminal of a generator to the first surface, whilst the second surface is connected to the second generator terminal. At least one wire or ribbon (160) connects the two surfaces. The first surface includes a cut-out, or a series of cut-outs (122) which may be linked end-to-end. These extend along the periphery of the surface shape, thus defining an inner region (126) and an outer region (124) for the surface.

IPC 8 full level  
**H01Q 9/04** (2006.01); **H01Q 13/08** (2006.01); **H01Q 5/00** (2015.01); **H01Q 5/10** (2015.01); **H01Q 5/357** (2015.01)

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

Citation (examination)  
• DELAVEAUD CH ET AL: "New kind of microstrip antenna: the monopolar wire-patch antenna", ELECTRONICS LETTERS, IEE STEVENAGE, GB, vol. 30, no. 1, 6 January 1994 (1994-01-06), pages 1 - 2, XP006000050, ISSN: 0013-5194, DOI: 10.1049/EL:19940057  
• BURBERRY R A ET AL: "Comment: New kind of microstrip antenna: the monopolar wire patch antenna", ELECTRONICS LETTERS, IEE STEVENAGE, GB, vol. 30, no. 10, 12 May 1994 (1994-05-12), pages 745 - 745, XP006000517, ISSN: 0013-5194, DOI: 10.1049/EL:19940525

Designated contracting state (EPC)  
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**FR 2826185 A1 20021220; FR 2826185 B1 20080711**; CA 2451097 A1 20021227; CA 2451097 C 20080115; EP 1433223 A1 20040630; EP 1433223 B1 20150415; JP 2004531152 A 20041007; JP 4044895 B2 20080206; US 2004164916 A1 20040826; US 7038631 B2 20060502; WO 02103843 A1 20021227

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