

Title (en)
MULTI-BAND PIF ANTENNA WITH MEANDER STRUCTURE

Title (de)
MEHRBAND-PIF-ANTENNE MIT MEANDERSTRUKTUR

Title (fr)
ANTENNE PIF MULTIBANDES PRESENTANT UN BATI ARQUE

Publication
EP 1481444 A4 20090617 (EN)

Application
EP 03743664 A 20030131

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- US 10805902 A 20020327

Abstract (en)
[origin: WO03075395A2] A mono-band or multi-band planar inverted F antenna (PIFA) structure (200) comprises a planar radiating element (202) having a first area, a ground plane (204) having a second area that is substantially parallel to the radiating element first area. The first area further comprises a section (230) having a meandering form elongating the effective overall length of the radiating element.

IPC 8 full level
H01Q 1/38 (2006.01); **H01Q 13/08** (2006.01); **H01Q 1/24** (2006.01); **H01Q 1/36** (2006.01); **H01Q 5/00** (2006.01); **H01Q 5/371** (2015.01); **H01Q 9/04** (2006.01); **H01Q 9/42** (2006.01)

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

Citation (search report)

- [X] EP 1011167 A1 20000621 - MATSUSHITA ELECTRIC IND CO LTD [JP]
- [XY] US 5926139 A 19990720 - KORISCH ILYA A [US]
- [X] WO 0129927 A1 20010426 - SIEMENS AG [DE], et al
- [XY] DE 19929689 A1 20010111 - SIEMENS AG [DE]
- [X] WO 9903168 A1 19990121 - ALLGON AB [SE], et al
- See references of WO 03075395A2

Designated contracting state (EPC)
DE FI FR GB SE

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