

Title (en)
EMBEDDED PLANAR ANTENNA AND PERTAINING TUNING METHOD

Title (de)
EINGEBETTETE PLANARE ANTENNE UND DAZUGEHÖRIGES ABSTIMMUNGSVERFAHREN

Title (fr)
ANTENNE PLANE ENCASTREE ET METHODE D'ACCORD ASSOCIEE

Publication
EP 1751819 A2 20070214 (DE)

Application
EP 05739901 A 20050324

Priority
• EP 2005003184 W 20050324
• DE 102004016158 A 20040401

Abstract (en)
[origin: WO2005096433A2] The invention relates to an improved planar antenna, especially a patch antenna (1), which comprises an electrically conductive ground plane (2); a first dielectric substrate layer (3) arranged on said ground plane (2) and having a first relative permittivity; at least one electrically conductive effective area (4) arranged on the first dielectric substrate layer (3) and electrically connected to one end (5a) of an electrically conductive feed line (5); at least one second dielectric substrate layer (6) arranged on the effective area (4) and having a second relative permittivity; whereby the second relative permittivity is larger or equal the first relative permittivity.

IPC 8 full level
H01Q 1/40 (2006.01); **H01Q 1/38** (2006.01); **H01Q 9/04** (2006.01)

CPC (source: EP US)
H01Q 1/40 (2013.01 - EP US); **H01Q 9/0407** (2013.01 - EP US)

Citation (search report)
See references of WO 2005096433A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005096433 A2 20051013; WO 2005096433 A3 20051222; CA 2561278 A1 20051013; CA 2561278 C 20121113;
DE 102004016158 A1 20051103; DE 102004016158 B4 20100624; EP 1751819 A2 20070214; JP 2007531436 A 20071101;
US 2008278375 A1 20081113; US 7626547 B2 20091201

DOCDB simple family (application)
EP 2005003184 W 20050324; CA 2561278 A 20050324; DE 102004016158 A 20040401; EP 05739901 A 20050324;
JP 2007505462 A 20050324; US 54749505 A 20050324