

Title (en)

Multiband planar built-in radio antenna with inverted-L main and parasitic radiators

Title (de)

Eingebaute Mehrband-Planarantenne mit Inverted-L-Haupt- und Parasitär- Antennenelementen

Title (fr)

Antenne intégrée multibande composée d'éléments d'antennes planaires principale et parasites en "I" inversé

Publication

**EP 1345282 B1 20060118 (EN)**

Application

**EP 02005816 A 20020314**

Priority

EP 02005816 A 20020314

Abstract (en)

[origin: EP1345282A1] A multi-band radio antenna device (1) for a radio communication terminal, comprising a flat ground substrate (20), a flat main radiating element (2,9) having a radio signal feeding point (3), and a flat parasitic element (5,6). The main radiating element is located adjacent to and in the same plane as said ground substrate, and preferably dielectrically separated therefrom. The antenna device is suitable for being used as a built-in antenna in portable radio terminals, such as a mobile phone (30). <IMAGE>

IPC 8 full level

**H01Q 1/24** (2006.01); **H01Q 1/38** (2006.01); **H01Q 5/00** (2006.01); **H01Q 5/357** (2015.01); **H01Q 5/385** (2015.01); **H01Q 9/04** (2006.01); **H01Q 19/00** (2006.01)

CPC (source: EP)

**H01Q 1/243** (2013.01); **H01Q 1/38** (2013.01); **H01Q 5/357** (2015.01); **H01Q 5/385** (2015.01); **H01Q 9/0407** (2013.01); **H01Q 19/005** (2013.01)

Cited by

EP2075874A1; CN113839187A; CN107508035A; CN103811850A; EP2405533A1; EP2728665A1; US8111200B2; US8081124B2; US7928920B2; US10224630B2; WO2008023095A1; US8400364B2; US8547283B2; WO2019227651A1; US10476134B2; US11145955B2

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 1345282 A1 20030917; EP 1345282 B1 20060118**; AT E316295 T1 20060215; DE 60208731 D1 20060406; DE 60208731 T2 20060914

DOCDB simple family (application)

**EP 02005816 A 20020314**; AT 02005816 T 20020314; DE 60208731 T 20020314