

Title (en)

Mobile wireless communications device comprising multi-frequency band antenna and fabrication method

Title (de)

Schnurloses Kommunikationsgerät mit Multibandantenne und Herstellungsverfahren

Title (fr)

Appareil de communication sans fil avec antenne multi-bandes et méthode de fabrication

Publication

EP 1739788 B1 20070801 (EN)

Application

EP 05253974 A 20050627

Priority

EP 05253974 A 20050627

Abstract (en)

[origin: EP1739788A1] A mobile wireless communications device may include a housing and a multi-frequency band antenna carried within the housing. The multi-frequency band antenna may include a main loop conductor having a gap therein defining first and second ends of the main loop conductor, a first branch conductor having a first end connected adjacent the first end of the main loop conductor and having a second end defining a first feed point, and a second branch conductor having a first end connected adjacent the second end of the main loop conductor and a second end defining a second feed point. A third branch conductor has a first portion within the main loop conductor, and a second portion connected to the second feed point. A tuning branch conductor may have a first end connected to the main loop conductor between the respective first ends of the first and second branches.

IPC 8 full level

H01Q 9/42 (2006.01); **H01Q 1/24** (2006.01); **H01Q 1/38** (2006.01); **H01Q 5/00** (2006.01); **H01Q 5/357** (2015.01); **H01Q 7/00** (2006.01)

CPC (source: EP)

H01Q 1/243 (2013.01); **H01Q 1/38** (2013.01); **H01Q 5/357** (2015.01); **H01Q 7/00** (2013.01); **H01Q 9/42** (2013.01)

Cited by

EP1973192A1; CN107425277A; JP2017192152A; CN111082205A; EP3827474A4; US11923622B2; US8509211B2; US7629932B2; WO2011095207A1; WO2010151425A1

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

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

EP 1739788 A1 20070103; **EP 1739788 B1 20070801**; AT E368948 T1 20070815; CA 2549192 A1 20061021; CA 2549192 C 20080429; CN 100584066 C 20100120; CN 1870799 A 20061129; DE 602005001860 D1 20070913; DE 602005001860 T2 20080417; ES 2287876 T3 20071216; SG 128637 A1 20070130

DOCDB simple family (application)

EP 05253974 A 20050627; AT 05253974 T 20050627; CA 2549192 A 20060619; CN 200610090876 A 20060627; DE 602005001860 T 20050627; ES 05253974 T 20050627; SG 200604296 A 20060621