

Title (en)

Multi-band antenna device and portable radio communication device comprising such an antenna device

Title (de)

Multiband-Antennenvorrichtung und tragbare Funkkommunikationsvorrichtung mit einer solchen Antennenvorrichtung

Title (fr)

Dispositif d'antenne multi-bande et dispositif de communication radio portable comportant un tel dispositif d'antenne

Publication

EP 2173006 A1 20100407 (EN)

Application

EP 08165821 A 20081003

Priority

EP 08165821 A 20081003

Abstract (en)

A multi-band antenna device (10) for a portable radio communication device comprises a parasitic element (14) and a radiating element (12) including a feeding section (16), a length varying section (18) and first and second dual band sections (20, 22). The feeding section (16) stretches along the parasitic element (12). The length varying section (18) is further distanced from the parasitic element (14) than the feeding section (16) and includes a first and a second parallel branch (24, 26) as well as a switch (SW). The first branch (24) is shorter than the second branch (26) for providing resonance in a first frequency band while the second branch provides resonance in a second frequency band. The first and second dual-band sections (20, 22) together provide resonance in a third frequency band.

IPC 8 full level

H01Q 1/24 (2006.01); **H01Q 9/04** (2006.01); **H01Q 9/42** (2006.01); **H01Q 23/00** (2006.01)

CPC (source: EP)

H01Q 1/243 (2013.01); **H01Q 5/335** (2015.01); **H01Q 5/392** (2015.01); **H01Q 9/0421** (2013.01); **H01Q 9/0442** (2013.01); **H01Q 9/42** (2013.01); **H01Q 23/00** (2013.01)

Citation (applicant)

- EP 1858115 A1 20071121 - AMC CENTURION AB [SE]
- WO 2004014464 A1 20040219 - SPECIALIZED HEALTH PROD INC [US]

Citation (search report)

- [DA] EP 1858115 A1 20071121 - AMC CENTURION AB [SE]
- [A] WO 2006062215 A1 20060615 - YOKOWO SEISAKUSHO KK [JP], et al
- [A] JP H11163620 A 19990618 - SHARP KK
- [A] US 2002021248 A1 20020221 - YING ZHINONG [SE], et al

Cited by

CN109149129A

Designated contracting state (EPC)

DE

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2173006 A1 20100407; WO 2010039087 A1 20100408

DOCDB simple family (application)

EP 08165821 A 20081003; SE 2009051030 W 20090916