

Title (en)

MULTI-BAND ANTENNA WITH A COMMON RESONANT FEED STRUCTURE AND METHODS

Title (de)

MEHRBANDANTENNE MIT EINER GEMEINSAMEN RESONANZ-ZUFÜHRUNGSSTRUKTUR UND VERFAHREN

Title (fr)

ANTENNE MULTIBANDES AVEC UNE STRUCTURE D'ALIMENTATION RÉSONANTE COMMUNE ET PROCÉDÉS CORRESPONDANTS

Publication

EP 2092607 A4 20121219 (EN)

Application

EP 07810624 A 20070719

Priority

- US 2007016405 W 20070719
- US 54417306 A 20061005

Abstract (en)

[origin: WO2008045151A1] A multi-band antenna and associated apparatus for communication systems and other applications. In one embodiment, a common junction network is provided having a first and a second radiator. The first radiator resonates in a first frequency band. The second radiator resonates in a second frequency band. The first and second frequency bands are different from one another (yet may overlap). A first electrical component is coupled to the common junction network and proximately located to the first radiator. The first electrical component creates a resonance with the common junction network to create a third frequency band proximate to the first frequency band. The first radiator is capable of communicating RF energy in the first frequency band and the third frequency band.

IPC 8 full level

H01Q 5/00 (2006.01); **H01Q 5/335** (2015.01); **H01Q 5/40** (2015.01); **H01Q 21/12** (2006.01); **H01Q 21/30** (2006.01)

CPC (source: EP)

H01Q 5/335 (2015.01); **H01Q 5/40** (2015.01); **H01Q 21/30** (2013.01)

Citation (search report)

- [X] EP 1569300 A1 20050831 - MATSUSHITA ELECTRIC IND CO LTD [JP]
- [XP] WO 2007074369 A1 20070705 - NOKIA CORP [FI], et al
- [A] EP 0762533 A2 19970312 - MURATA MANUFACTURING CO [JP]
- [A] US 2002196192 A1 20021226 - NAGUMO SHOJI [JP], et al
- See references of WO 2008045151A1

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 LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2008045151 A1 20080417; CN 101622759 A 20100106; EP 2092607 A1 20090826; EP 2092607 A4 20121219

DOCDB simple family (application)

US 2007016405 W 20070719; CN 200780042682 A 20070719; EP 07810624 A 20070719