

Title (en)

A RESONANT, DUAL-POLARIZED PATCH ANTENNA

Title (de)

RESONANTE DOPPELT POLARISIERTE PATCH-ANTENNE

Title (fr)

ANTENNE A PLAQUE BIPOLARISEE, RESONNANTE

Publication

EP 1897171 B1 20120829 (EN)

Application

EP 06741244 A 20060615

Priority

- AU 2006000834 W 20060615
- AU 2005903393 A 20050623

Abstract (en)

[origin: WO2006135956A1] A patch antenna (200) having a reduced beamwidth and a method of controlling the beamwidth of a resonant, dual-polarized patch antenna (200) are disclosed. The antenna (200) comprises a ground plane (210), a patch radiator (220), a conductive member and an asymmetrical feed (230). The patch radiator (220) is suspended above the ground plane (210), in which a central region (225) of the patch radiator (220) is shorted to ground. The feed (230) is symmetrically disposed about the centre of the patch radiator (220) and which excites opposite sides of the patch radiator (220) in antiphase. The feed (230) is coupled to the patch radiator (220) at locations outside the central region (225).

IPC 8 full level

H01Q 9/04 (2006.01); **H01Q 1/12** (2006.01); **H01Q 1/38** (2006.01); **H01Q 21/24** (2006.01)

CPC (source: EP)

H01Q 9/0407 (2013.01); **H01Q 9/0421** (2013.01); **H01Q 9/045** (2013.01)

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2006135956 A1 20061228; CN 101258642 A 20080903; CN 101258642 B 20130102; EP 1897171 A1 20080312; EP 1897171 A4 20100519; EP 1897171 B1 20120829; HK 1112114 A1 20080822

DOCDB simple family (application)

AU 2006000834 W 20060615; CN 200680028446 A 20060615; EP 06741244 A 20060615; HK 08106615 A 20080617