

Title (en)

A COUPLED-FEED WIDEBAND ANTENNA

Title (de)

BREITBANDANTENNE MIT GEKOPPELTER ZULEITUNG

Title (fr)

ANTENNE LARGE BANDE À ALIMENTATION COUPLÉE

Publication

EP 2811573 B1 20180530 (EN)

Application

EP 13170266 A 20130603

Priority

EP 13170266 A 20130603

Abstract (en)

[origin: EP2811573A1] A device having a coupled-feed wideband antenna is provided. The device comprises: a chassis comprising as a ground plane; an antenna feed, a ground side of the antenna feed connected to the ground plane; and, an antenna comprising: a first radiating arm configured for generating a first resonance at a first frequency, the first radiating arm connected to the chassis and hence the ground plane; a second radiating arm configured for generating a second resonance at a second frequency higher than the first frequency, the second radiating arm connected to the ground plane; and a third radiating arm configured for generating a third resonance at a third frequency higher than the second frequency, the first radiating arm capacitively coupled to the third radiating arm, and the third radiating arm connected to a positive side of the antenna feed.

IPC 8 full level

H01Q 1/24 (2006.01); **H01Q 5/378** (2015.01); **H01Q 9/42** (2006.01)

CPC (source: EP)

H01Q 1/243 (2013.01); **H01Q 5/378** (2015.01); **H01Q 9/42** (2013.01)

Citation (examination)

US 2007159398 A1 20070712 - TSAI FENG-CHI E [TW], et al

Cited by

CN106159446A; EP3680985A4; EP4429021A1; EP4030556A4; US10290932B2; US11404792B2; US10297897B2; US9954271B2; WO2020147172A1; WO2017058177A1; WO2022148342A1; US10804602B2; US9692119B2; TWI628842B; TWI560940B

Designated contracting state (EPC)

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DOCDB simple family (publication)

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