

Title (en)

Differential filtering device with coplanar coupled resonators and filtering antenna furnished with such a device

Title (de)

Differentialfiltervorrichtung mit koplanar gekoppelten Resonatoren und Filterantenne mit einer entsprechenden Vorrichtung

Title (fr)

Dispositif de filtrage différentiel à résonateurs couplés coplanaires et antenne filtrante munie d'un tel dispositif

Publication

EP 2184801 B1 20130724 (FR)

Application

EP 09175192 A 20091106

Priority

FR 0806219 A 20081107

Abstract (en)

[origin: EP2184801A1] The device (10) has resonators (12, 14) coupled on a same plain face (16) of a dielectric substrate. Each resonator includes conductive strips (LE1, LE2, LS1, LS2) positioned in a symmetric manner with respect to a symmetry plane (P) perpendicular to the substrate plain face. Each conductive strip of the resonator is folded on itself in a manner to form a capacitive linkage. The resonators are coupled by arrangement of their respective conducting strips disposed on a same side with respect to the symmetry plane, over respective portions of length of the folded conducting strips. An independent claim is also included for a differential filtering dipole antenna comprising a radiating structure for integrating a differential filtering device.

IPC 8 full level

H01P 1/203 (2006.01)

CPC (source: EP US)

H01P 1/203 (2013.01 - EP US); **H01Q 5/335** (2015.01 - EP US); **H01Q 9/285** (2013.01 - EP US)

Citation (examination)

EP 1914826 A1 20080423 - MURATA MANUFACTURING CO [JP]

Cited by

CN108717994A; CN115051154A; CN113889754A; CN105680127A; CN112186345A; CN106654551A; CN110444840A; CN114824715A; CN114597622A

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 2184801 A1 20100512; **EP 2184801 B1 20130724**; FR 2938379 A1 20100514; US 2010117765 A1 20100513; US 8284001 B2 20121009

DOCDB simple family (application)

EP 09175192 A 20091106; FR 0806219 A 20081107; US 61074209 A 20091102