

Title (en)

FILTERING DEVICE AND FILTERING ARRAY HAVING AN ELECTRICALLY CONDUCTIVE STRIP STRUCTURE

Title (de)

FILTRIERVORRICHTUNG UND FILTRIERANORDNUNG MIT EINER ELEKTRISCH LEITENDEN STREIFENSTRUKTUR

Title (fr)

DISPOSITIF DE FILTRAGE ET ENSEMBLE FILTRANT A STRUCTURE DE BANDES ELECTRIQUEMENT CONDUCTRICES

Publication

EP 3224897 B1 20190814 (FR)

Application

EP 15807957 A 20151126

Priority

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- FR 2015053224 W 20151126

Abstract (en)

[origin: WO2016083747A1] This filtering device (100) includes a transmission line (102) formed by an electrically conductive strip printed on one face of an electrically insulating substrate (104), this conductive strip having two ends (102IN, 102OUT) respectively forming the only two input and output connection ports of the filtering device (100), and a plurality of resonators (1061...,106M), each resonator including an electrically conductive strip printed on said face of the substrate (104). The conductive strip of each resonator (1061...,106M) has a first end (1081...,108M) coupled to the transmission line and at least one second end (1101...,110M) that is free or connected to ground so as to engender an effective fundamental resonant wavelength specific to each resonator. For each pair of neighbouring resonators of the plurality of resonators, the distance (e1...,eM-1) between the first ends of these two neighbouring resonators is smaller than one tenth of the smallest effective fundamental resonant wavelength of the plurality of resonators (1061...,106M).

IPC 8 full level

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CPC (source: EP US)

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