

Title (en)

A bandwidth tunable filter and a method for constructing and tuning such a filter

Title (de)

Bandbreitenabstimmbarer Filter und Verfahren zum Bau und zur Abstimmung eines solchen Filters

Title (fr)

Filtre réglable de largeur de bande et procédé de construction et réglage d'un tel filtre

Publication

**EP 2897214 A1 20150722 (EN)**

Application

**EP 14305063 A 20140117**

Priority

EP 14305063 A 20140117

Abstract (en)

A filter is disclosed that comprises a plurality of resonator members including an input resonator member and an output resonator member each of the plurality of resonator members being mounted on a surface within a conductive housing. The filter has an input feed line configured to transmit a signal to the input resonator member such that the signal excites the input resonator member, the plurality of resonator members being arranged such that the signal is transferred between the plurality of resonator members to an output resonator member. There is an output feed line for receiving the signal from the output resonator member and for outputting the signal. A conductive tuning member protrudes between at least one of the feed lines and an inner surface of the conductive housing such that the conductive tuning member affects a capacitance of the at least one of the feed lines allowing it to be bandwidth tuned.

IPC 8 full level

**H01P 1/208** (2006.01); **H01P 7/06** (2006.01)

CPC (source: EP)

**H01P 1/208** (2013.01); **H01P 7/06** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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