

Title (en)

FILTER THAT IS VARIABLE BY MEANS OF A CAPACITOR THAT IS SWITCHED USING MEMS COMPONENTS

Title (de)

MITTELS EINES MEMS-GESCHALTETEN KONDENSATORS VERÄNDERLICHES FILTER

Title (fr)

FILTRE VARIABLE PAR CONDENSATEUR COMMUTE AU MOYEN DE COMPOSANTS MEMS

Publication

EP 2659544 A1 20131106 (FR)

Application

EP 11811346 A 20111222

Priority

- FR 1005182 A 20101230
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Abstract (en)

[origin: WO2012089619A1] The invention relates to a tractable filter comprising at least two resonating circuits (14a, 14b) arranged between two matching networks (4, 5), characterized in that: one resonator is connected, by a first of the ends thereof (14a1, 14b1), to the ground M of the filter by plated through-holes (16), and by a second end (14a2, 14b2) thereof to a MEMS network (12); the distance d between the two resonators forms an inductive inter-resonator coupling circuit (10); an inter-resonator coupling capacitor (11) is formed by two etched lines (11a, 11b) connected to the first and second resonators; the MEMS networks are distributed around the ends of the resonators; the MEMS networks are connected between the first and second resonators and the ground M by means of plated through-holes; and the filter includes a plurality of independent control voltages Vi (17) designed to operate the MEMS.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2012089619A1

Citation (examination)

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