

Title (en)  
SMALL-DIMENSIONED MICROWAVE FILTER WITH LINEAR RESONATORS

Publication  
**EP 0071508 B1 19870121 (FR)**

Application  
**EP 82401307 A 19820709**

Priority  
FR 8114425 A 19810724

Abstract (en)  
[origin: EP0071508A1] 1. A microwave filter comprising n linear hair-pin resonators (H'1 -H'5 ), n being a positive integer, characterized in that the length of each resonator is smaller than  $\lambda/2$ ,  $\lambda$  being the wavelength corresponding to the center frequency of the filter band, and that a capacitor (C1 -C2 ) is branched between the open ends of each resonator, the capacitance of said capacitor being such that a resonance frequency equal to said center frequency of the filter band is obtained in the resonant circuit constituted by said capacitor and the associated resonator.

IPC 1-7  
**H01P 1/203**

IPC 8 full level  
**H01P 1/203** (2006.01); **H01P 1/212** (2006.01); **H01P 7/08** (2006.01)

CPC (source: EP)  
**H01P 1/20372** (2013.01)

Citation (examination)  
"Microwave Filter of coupled Lines and Lumped Capacitances", reprinted from the IEEE transaction on Microwave Theory and Techniques, Vol. MTT-18, pages 278 a 280, (mai 1970)

Cited by  
FR2613538A1; EP0803979A3; US4731596A; US6313719B1; US5187460A; RU2662058C1; GB2164804A; GB2164804B; EP0326498A1; FR2626716A1; EP0165158A1; FR2565438A1; US7231238B2; EP0071509B1

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