

Title (en)
APPARATUS AND METHODS FOR SPLIT-FEED COUPLED-RING RESONATOR-PAIR ELLIPTIC-FUNCTION FILTERS

Title (de)
VORRICHTUGNEN UND VERFAHREN FÜR ZWEIGSPEISUNGS-KOPPELRINGRESONATORPAAR-FILTER MIT ELLIPTISCHEN FUNKTIONEN

Title (fr)
APPAREIL ET PROCEDE RELATIFS A DES FILTRES A RESONATEURS ANNULAIRES A ALIMENTATION DEDOUBLEE ET A FONCTION ELLIPTIQUE

Publication
EP 1782496 A1 20070509 (EN)

Application
EP 04779847 A 20040730

Priority
US 2004024913 W 20040730

Abstract (en)
[origin: WO2006022672A1] A filter has coupled pairs of resonators positioned between and planar to split feed lines. The filters are further positioned orthogonal to the signal path. The filter has two pairs of resonators. Coupling extensions of the split feed lines are substantially parallel to each other. The resonators couple with the split feed lines at the coupling extensions. The resonators in each pair also couple to each other. The topology effectively forms an Elliptic Function response bandpass filter with high close-in frequency rejection capability. The filter can be cascaded to provide improved frequency rejection. Further, this topology may be relatively inexpensively produced using standard lithography techniques.

IPC 8 full level
H01P 1/203 (2006.01)

CPC (source: EP)
H01P 1/20363 (2013.01); **H01P 1/20381** (2013.01)

Citation (search report)
See references of WO 2006022672A1

Cited by
US11211676B2; EP3806236A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2006022672 A1 20060302; AT E466387 T1 20100515; DE 602004026933 D1 20100610; EP 1782496 A1 20070509; EP 1782496 B1 20100428; JP 2008508788 A 20080321; JP 4327876 B2 20090909

DOCDB simple family (application)
US 2004024913 W 20040730; AT 04779847 T 20040730; DE 602004026933 T 20040730; EP 04779847 A 20040730; JP 2007523524 A 20040730