

Title (en)
Microwave filter.

Title (de)
Mikrowellenfilter.

Title (fr)
Filtre à micro-ondes.

Publication
EP 0250857 A2 19880107 (DE)

Application
EP 87107533 A 19870523

Priority
DE 3621299 A 19860625

Abstract (en)
[origin: US4734665A] A microwave filter composed of at least two cavity resonators disposed adjacent one another, and a coupling aperture disposed between the resonators for coupling microwave energy between the resonators, one of the cavity resonators being operative to propagate microwave energy having a TE mode and the other of the cavity resonators being operative to propagate microwave energy having a TM mode, wherein the coupling aperture is constructed for coupling the TE mode in the one cavity resonator with the TM mode in the other cavity resonator.

Abstract (de)
Bei einem Mikrowellenfilter, bestehend aus mindestens zwei Hohlraumresonatoren (HR1, HR2), in denen jeweils mindestens ein TE- oder TM-Wellenmode existiert, findet eine Kopplung zwischen einem TE-Wellenmode in dem einen der beiden benachbarten Hohlraumresonatoren (HR1, HR2) und einem TM-Wellenmode in dem anderen Hohlraumresonator statt (Fig. 1).

IPC 1-7
H01P 1/208

IPC 8 full level
H01P 1/208 (2006.01)

CPC (source: EP US)
H01P 1/2082 (2013.01 - EP US)

Cited by
EP2432070A1; FR2675952A1; US8665039B2

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0250857 A2 19880107; EP 0250857 A3 19881207; EP 0250857 B1 19920715; CA 1271532 A 19900710; DE 3621299 A1 19880107; DE 3780367 D1 19920820; US 4734665 A 19880329

DOCDB simple family (application)
EP 87107533 A 19870523; CA 540336 A 19870623; DE 3621299 A 19860625; DE 3780367 T 19870523; US 6556687 A 19870623