

Title (en)
MULTIPLEX FILTER HAVING DIELECTRIC SUBSTRATES FOR THE TRANSMISSION OF TM MODES IN A TRANSVERSAL DIRECTION

Title (de)
MULTIPLEXFILTER MIT DIELEKTRISCHEN SUBSTRATEN ZUR ÜBERTRAGUNG VON TM-MODEN IN TRANSVERSALER RICHTUNG

Title (fr)
FILTRES MULTIPLES COMPRENANT DES SUBSTRATS DIELECTRIQUES DESTINES A TRANSMETTRE DES MODES TM DANS UNE DIRECTION TRANSVERSALE

Publication
EP 3089260 B1 20181212 (DE)

Application
EP 16165214 A 20160414

Priority
DE 102015005613 A 20150430

Abstract (en)
[origin: US2016322687A1] A multiplex filter has at least n filter chambers which are surrounded by a housing and/or at least one insert positioned in the housing. A metal dividing device is constructed in each of the n filter chambers, dividing each filter chamber into m resonator chambers, wherein $m \geq 2$. The resonator chambers are coupled perpendicular to the H fields and/or parallel to the central axis or with a component essentially perpendicular to the H fields and/or parallel to the central axis. A common connection is guided into the first filter chamber via a first opening in the housing, and is coupled in the same to the m resonators of the m resonator chambers. As a result of the fact that the coupling is established perpendicular to the H field, the resonator can have a very compact construction.

IPC 8 full level
H01P 1/208 (2006.01); **H01P 1/213** (2006.01); **H01P 5/12** (2006.01)

CPC (source: CN EP US)
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Citation (examination)
WO 2014128484 A1 20140828 - MESAPLEXX PTY LTD [AU], et al

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