

Title (en)
RESONATOR, RESONATOR ASSEMBLY AND FILTER

Title (de)
RESONATOR, RESONATOR MONTAGE UND FILTER

Title (fr)
RÉSONATEUR, RÉSONATEUR ASSEMBLÉE ET FILTRE

Publication
EP 3324480 A1 20180523 (EN)

Application
EP 16306505 A 20161117

Priority
EP 16306505 A 20161117

Abstract (en)
A resonator (40) for a filter comprises a cavity (49) defined by first (41) and second (42) opposing conductive end walls and a conductive sidewall (43). A dielectric element (44) extends into the cavity from the first conductive end wall and a conductive element (48) extends into the cavity from the second conductive end wall. The free end of the conductive element is an open end thereof and the dielectric rod extends into the free end, forming a gap between the periphery of the dielectric element and the interior surface of the free end of the conductive element. For a given volume, the resonator has a lower resonant frequency compared to dielectric or dielectric combine resonators of the prior art, and a smaller volume for a given resonant frequency.

IPC 8 full level
H01P 1/208 (2006.01); **H01P 7/10** (2006.01)

CPC (source: EP)
H01P 1/2084 (2013.01); **H01P 7/10** (2013.01)

Citation (search report)

- [XAI] WO 2009000862 A2 20081231 - RADIOCOMP APS [DK], et al
- [XAI] CN 102354780 A 20120215 - SHENZHEN CITY TAT FOOK TECHNOLOGY CO LTD
- [XAI] EP 2884579 A1 20150617 - PANASONIC CORP [JP]
- [XAI] CN 103855455 A 20140611 - SHENZHEN GUANGQI INNOVATIVE TECHNOLOGY CO LTD
- [XAI] US 6320484 B1 20011120 - FURUYA MITSURU [JP], et al

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CN112928411A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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