

Title (en)  
Dielectric multimode resonator

Title (de)  
Dielektrischer multimoder Resonator

Title (fr)  
Résonateur multimodal diélectrique

Publication  
**EP 1962369 B1 20140604 (EN)**

Application  
**EP 07003578 A 20070221**

Priority  
EP 07003578 A 20070221

Abstract (en)  
[origin: EP1962369A1] The present invention relates to a dielectric multimode resonator comprising a plurality of walls (2,3,4) enclosing a resonator cavity (6) a resonator element (7) made of dielectric material and disposed in the resonator cavity (6) The plurality of walls (2,3,4) includes a first wall (2), an opposing second wall (3) and at least on one third wall (4) extending between and connecting the first wall (2) and the second wall (3). The resonator element (7) comprises a central portion (8) and exactly four elongate leg portions (9a,9b,9c,9d) extending longitudinally from the central portion (8) towards the walls (2,3,4), such that one (10) of the two longitudinal ends (10,11) of each elongate leg portion (9a,9b,9c,9d) is directly joined to the central portion (8) and the other longitudinal end (11) is connected to only one of the walls (2,3,4). Elongate leg portions (9a,9b,9c,9d) included in a first set are connected to a different wall (2,3,4) than elongate leg portions (9a,9b,9c,9d) included in a second set.

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

CPC (source: EP)  
**H01P 7/105** (2013.01)

Cited by  
EP2325940A1; CN113571861A; US9768484B2; US11088431B2; WO2019119657A1; WO2015008149A3; WO2016063997A1; US10109906B2; US10601101B2; US10847861B2; US11128259B2; JP6063583B2

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 1962369 A1 20080827; EP 1962369 B1 20140604**

DOCDB simple family (application)  
**EP 07003578 A 20070221**