

Title (en)
MULTI-MODE RESONATOR

Title (de)
MULTIMODALER RESONATOR

Title (fr)
RÉSONATEUR MULTIMODAL

Publication
EP 3721502 A4 20210714 (EN)

Application
EP 17933954 A 20171208

Priority
CN 2017115227 W 20171208

Abstract (en)
[origin: WO2019109335A1] Embodiments of the present disclosure relate to a multi-mode resonator. The multi-mode resonator comprises: a cavity; an upper support disposed in the cavity and oriented in a longitudinal direction; a lower support disposed in the cavity and aligned with the upper support in the longitudinal direction; and a dielectric core disposed between the upper support and the lower support and including a plurality of branches associated with a plurality of resonant modes; and at least one tuning screw disposed in the cavity associated with a branch of the dielectric core. The at least one tuning screw is tunable to adjust a resonant mode associated with the branch.

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

CPC (source: EP)
H01P 1/2086 (2013.01); **H01P 7/105** (2013.01)

Citation (search report)

- [X] US 2017263996 A1 20170914 - KARHU KIMMO KALERVO [FI]
- [X] EP 1858109 A1 20071121 - MATSUSHITA ELECTRIC IND CO LTD [JP]
- [X] CN 105006617 A 20151028 - JIANGSU WUTONG COMM CO LTD
- [X] CN 105161814 A 20151216 - JIANGSU WUTONG COMM CO LTD
- [X] EP 1962370 A1 20080827 - MATSUSHITA ELECTRIC IND CO LTD [JP]
- [A] US 2002003461 A1 20020110 - HUNTER IAN CHARLES [GB]
- [A] US 4623857 A 19861118 - NISHIKAWA TOSHIO [JP], et al
- See references of WO 2019109335A1

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

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CN 2017115227 W 20171208; CN 201780097531 A 20171208; EP 17933954 A 20171208