

Title (en)

Tunable cavity filter

Title (de)

Abstimmbarer Hohlraumfilter

Title (fr)

Filtre à cavité accordable

Publication

**EP 2887449 A1 20150624 (EN)**

Application

**EP 13306741 A 20131217**

Priority

EP 13306741 A 20131217

Abstract (en)

A tunable cavity filter is proposed. The tunable cavity filter comprises a housing which is made of metal forming a cavity. Inside the cavity, a tunable element is attached to one side of the cavity. The tunable element is expandable or compressible using a control voltage, thus, if a control voltage is applied the tunable element expands or compresses itself.

IPC 8 full level

**H01P 1/205** (2006.01); **H01P 1/208** (2006.01); **H01P 7/04** (2006.01); **H01P 7/06** (2006.01)

CPC (source: EP)

**H01P 1/2053** (2013.01); **H01P 1/208** (2013.01); **H01P 7/04** (2013.01); **H01P 7/06** (2013.01)

Citation (search report)

- [XY] US 3471811 A 19691007 - KLOTZ ROBERT E
- [XY] US 2010007442 A1 20100114 - NARHI HARRI [FI]
- [Y] US 2004212457 A1 20041028 - EDEN RICHARD C [US], et al
- [Y] US 2010127953 A1 20100527 - WIK DANIEL [SE]
- [Y] EP 2555322 A2 20130206 - DIEHL BGT DEFENCE GMBH & CO KG [DE]
- [A] US 8598969 B1 20131203 - WALKER ANDERS P [US], et al
- [A] DUBOIS P ET AL: "Voltage Control of the Resonance Frequency of Dielectric Electroactive Polymer (DEAP) Membranes", JOURNAL OF MICROELECTROMECHANICAL SYSTEMS, IEEE SERVICE CENTER, US, vol. 17, no. 5, 1 October 2008 (2008-10-01), pages 1072 - 1081, XP011231987, ISSN: 1057-7157, DOI: 10.1109/JMEMS.2008.927741

Cited by

CN109274348A; CN114365347A; US11139544B2; WO2017023439A1; US11264720B2; US11894592B2; WO2021049666A1

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

DOCDB simple family (publication)

**EP 2887449 A1 20150624**

DOCDB simple family (application)

**EP 13306741 A 20131217**