

Title (en)
HIGH FREQUENCY FILTER

Title (de)
HOCHFREQUENZFILTER

Title (fr)
FILTRE HAUTE FREQUENCE

Publication
EP 1721359 B1 20070613 (DE)

Application
EP 05715703 A 20050303

Priority
• EP 2005002248 W 20050303
• DE 102004010683 A 20040304

Abstract (en)
[origin: US2007194865A1] An improved high frequency filter of coaxial construction comprises one or more resonators having an electrically conductive internal conductor configured as an internal conductive tube and an electrically conductive external conductor. An electrically conductive base electrically interconnects the internal conductor and the external conductor. A cover covers the high frequency filter with respect to the base; and an inner side and outer side. The inner sided points toward a free end of the internal conductive tube. A dielectric layer having a dielectric constant $E_{\text{SUB}} > 2$ is arranged between the outer side of the covers and the free ends of the internal conductive tube. The radial extent of the dielectric layers substantially covers the cross section of the internal conductive tubes at the free ends thereof.

IPC 8 full level
H01P 1/205 (2006.01); **H01P 1/202** (2006.01); **H01P 7/04** (2006.01)

CPC (source: EP KR US)
H01P 1/202 (2013.01 - EP KR US); **H01P 1/205** (2013.01 - KR); **H01P 1/2053** (2013.01 - EP US); **H01P 7/04** (2013.01 - EP KR US)

Cited by
US8947179B2; DE102014001917A1; US10644376B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2007194865 A1 20070823; **US 7486162 B2 20090203**; AT E364909 T1 20070715; DE 102004010683 B3 20050908;
DE 502005000873 D1 20070726; DK 1721359 T3 20071008; EP 1721359 A1 20061115; EP 1721359 B1 20070613; ES 2285684 T3 20071116;
KR 101157689 B1 20120620; KR 20060129320 A 20061215; WO 2005086275 A1 20050915

DOCDB simple family (application)
US 59163705 A 20050303; AT 05715703 T 20050303; DE 102004010683 A 20040304; DE 502005000873 T 20050303;
DK 05715703 T 20050303; EP 05715703 A 20050303; EP 2005002248 W 20050303; ES 05715703 T 20050303; KR 20067015104 A 20050303