

Title (en)

DIELECTRIC FILTER, TRANSCEIVER AND BASE STATION

Title (de)

DIELEKTRISCHES FILTER, SENDE-EMPFÄNGER UND BASISSTATION

Title (fr)

FILTRE DIÉLECTRIQUE, ÉMETTEUR-RÉCEPTEUR ET STATION DE BASE

Publication

**EP 3319166 A1 20180509 (EN)**

Application

**EP 15909085 A 20151127**

Priority

CN 2015095791 W 20151127

Abstract (en)

Embodiments of the present invention provide a dielectric filter, and relate to the technical field of communication device components, to provide a novel dielectric filter structure for implementing cross coupling. The dielectric filter provided in the embodiments of the present invention includes at least three resonant cavities, each resonant cavity includes a debug hole, the debug hole is disposed in a body, each debug hole and the surrounding body of the debug hole form a resonant cavity, a blind hole is disposed between two resonant cavities that are not adjacent to each other, and the blind hole is configured to implement cross coupling. The dielectric resonator provided in the embodiments of the present invention simplifies a structure for implementing capacitive coupling and further enhances structure miniaturization.

IPC 8 full level

**H01P 1/207** (2006.01); **H01P 1/208** (2006.01); **H01P 5/00** (2006.01)

CPC (source: EP)

**H01P 1/2053** (2013.01); **H01P 1/2088** (2013.01); **H01P 1/2056** (2013.01)

Cited by

EP4060806A4; CN112909457A; EP4037093A4; EP3985791A4; US2023155267A1; WO2021175975A1

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 3319166 A1 20180509**; **EP 3319166 A4 20180912**; **EP 3319166 B1 20200701**; CN 107534197 A 20180102; CN 107534197 B 20210115; CN 112886161 A 20210601; CN 112886161 B 20220329; JP 2018526949 A 20180913; JP 6572391 B2 20190911; WO 2017088174 A1 20170601

DOCDB simple family (application)

**EP 15909085 A 20151127**; CN 2015095791 W 20151127; CN 201580079291 A 20151127; CN 202110050984 A 20151127; JP 2018530953 A 20151127