

Title (en)  
DIELECTRIC FILTER

Title (de)  
DIELEKTRISCHES FILTER

Title (fr)  
FILTRE DIELECTRIQUE

Publication  
**EP 3280000 A4 20180411 (EN)**

Application  
**EP 15890260 A 20150429**

Priority  
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Abstract (en)  
[origin: EP3280000A1] The present invention provides a dielectric filter, including a cavity, a resonant cavity, a cover plate, and a connecting rib. The cavity includes an accommodating cavity and a cavity wall surrounding the accommodating cavity. A resonator is disposed inside the accommodating cavity, the resonator includes a support medium and a main medium, the support medium is disposed on a bottom wall of the accommodating cavity, and the main medium is disposed on the support medium. The cover plate covers the cavity to close the accommodating cavity. The connecting rib is accommodated in the accommodating cavity, and is disposed on a radiation plane formed between a radiation radiated from a center axis of the resonator onto the cavity wall and the center axis of the resonator, where a shortest distance between the connecting rib and the main medium is greater than a preset value. The present invention achieves an object of pushing away a high-order harmonic wave. The present invention further provides a dielectric filter component and a base station.

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Citation (search report)

- [I] EP 1104043 A1 20010530 - MURATA MANUFACTURING CO [JP]
- [XII] EP 1301961 A1 20030416 - TELECOM ITALIA LAB SPA [IT]
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- [A] US 6717490 B1 20040406 - MAYER BERND [DE]
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- [A] EP 0328948 A1 19890823 - ALCATEL ESPACE [FR]
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