

Title (en)

TRANSVERSE ELECTROMAGNETIC MODE DIELECTRIC FILTER, RADIO FREQUENCY MODULE AND BASE STATION

Title (de)

DIELEKTRISCHES TEM-FILTER, RADIOFREQUENZMODUL UND BASISSTATION

Title (fr)

FILTRE DIÉLECTRIQUE À MODE ÉLECTROMAGNÉTIQUE TRANSVERSAL, MODULE DE RADIOFRÉQUENCE ET STATION DE BASE

Publication

EP 3217468 A4 20171129 (EN)

Application

EP 15867903 A 20150724

Priority

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Abstract (en)

[origin: EP3217468A1] Embodiments of the present invention provide a transverse electromagnetic mode dielectric filter. A near-end rejection structure is disposed inside the filter. By flexibly designing a shape, a location, and a size of the near-end rejection structure, a transmission zero or zero cavity function is implemented, and a radio frequency signal on a high-frequency end or a low-frequency end out of a passband of the filter is rejected, thereby achieving good near-end rejection performance. The embodiments of the present invention further provide a radio frequency module and a base station.

IPC 8 full level

H01P 1/201 (2006.01); **H01P 1/205** (2006.01)

CPC (source: EP)

H01P 1/2056 (2013.01)

Citation (search report)

- [Y] US 2012326806 A1 20121227 - NUMMERDOR JEFFREY J [US]
- [Y] WO 2007142786 A1 20071213 - CTS CORP [US]
- [A] US 5537085 A 19960716 - MCVEETY THOMAS [US]
- [A] GB 2343554 A 20000510 - SAMSUNG ELECTRO MECH [KR]
- [A] CN 203260696 U 20131030 - WUHAN FINGU ELECTRONIC TECH CO
- See references of WO 2016090925A1

Designated contracting state (EPC)

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