

Title (en)  
Diplexer and waveguide

Title (de)  
Diplexer und Wellenleiter

Title (fr)  
Duplexeur et guide d'ondes

Publication  
**EP 2750244 A1 20140702 (EN)**

Application  
**EP 13157832 A 20130305**

Priority  
TW 101149746 A 20121225

Abstract (en)  
A diplexer (13) for a waveguide (10) includes a power divider (131) for transmitting a transmitting signal (TX) and a first ortho-polarized receiving signal (RX1), a first lowpass filter (134) coupled to the power divider (131) for filtering out the transmitting signal (TX) and transmitting the first ortho-polarized receiving signal (RX1) a connecting port (132) coupled to the power divider (131) and having a first bend (B1) for transmitting the transmitting signal (TX), and a highpass filter (133) coupled to the connecting port (132) for filtering out the first ortho-polarized receiving signal (RX1) and transmitting the transmitting signal (TX).

IPC 8 full level  
**H01P 1/161** (2006.01); **H01P 1/213** (2006.01); **H01P 5/12** (2006.01)

CPC (source: EP)  
**H01P 1/2138** (2013.01); **H01P 5/12** (2013.01)

Citation (search report)

- [XYI] EP 0661771 A2 19950705 - NEC CORP [JP]
- [Y] EP 0295812 A2 19881221 - GAMMA F CORP A GEORGIA CORP [US]
- [XI] FR 2740614 A1 19970430 - NEC CORP [JP]
- [A] OFLI E ET AL: "A NOVEL COMPACT MILLIMETER WAVE DIPLEXER", 2002 IEEE MTT-S INTERNATIONAL MICROWAVE SYMPOSIUM DIGEST (CAT. NO.02CH37278) IEEE PISCATAWAY, NJ, USA; [IEEE MTT-S INTERNATIONAL MICROWAVE SYMPOSIUM], IEEE, 2 June 2002 (2002-06-02), pages 377 - 380, XP001099507, ISBN: 978-0-7803-7239-9, DOI: 10.1109/MWSYM.2002.1011634

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CN110828955A; CN107834143A

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 2750244 A1 20140702**; **EP 2750244 B1 20200401**; TW 201427165 A 20140701; TW I572085 B 20170221

DOCDB simple family (application)  
**EP 13157832 A 20130305**; TW 101149746 A 20121225