

Title (en)

6-8.5 GHz antenna diplexer with two-level resonating cavities.

Title (de)

6- bis 8,5-GHz-Antennendiplexer mit zweistufigen resonanten Hohlräumen

Title (fr)

Diplexeur d'antenne 6-8,5 GHz avec des cavités résonantes à deux niveaux

Publication

EP 2015390 A3 20090729 (EN)

Application

EP 08008671 A 20080508

Priority

IT MI20071253 A 20070622

Abstract (en)

[origin: EP2015390A2] A 6-8.5 GHz antenna diplexer comprises a central-symmetry body having resonating cavities arranged on two levels to reduce the size of the construction and to also exploit the vertical dimension. Thus, the diplexer exploits to a maximum degree all the available volume and, the resonating cavity number and electric features being the same, allows to reduce the overall volume with respect to a conventional diplexer having resonating cavity arranged at a single level.

IPC 8 full level

H01P 1/213 (2006.01)

CPC (source: EP)

H01P 1/2138 (2013.01)

Citation (search report)

- [X] US 2002180559 A1 20021205 - JANG SEI-JOO [KR]
- [A] JP S5460844 A 19790516 - NIPPON TELEGRAPH & TELEPHONE
- [X] BEYER R ET AL: "Compact Rx/Tx channel diplexer with tuning capability for integration in a 26GHz high capacity short haul radio equipment", MICROWAVE CONFERENCE, 2003. 33RD EUROPEAN 7-9 OCT. 2003, PISCATAWAY, NJ, USA,IEEE, vol. 2, 7 October 2003 (2003-10-07), pages 833 - 836, XP010681024, ISBN: 978-1-58053-835-0
- [A] WAGNER M ET AL: "Compact 60GHz diplexer in metallized plastic technology for gigabit wireless links", MICROWAVE CONFERENCE, 2004. 34TH EUROPEAN AMSTERDAM, THE NETHERLANDS 13 OCT. 2004, PISCATAWAY, NJ, USA,IEEE, vol. 2, 13 October 2004 (2004-10-13), pages 1009 - 1012, XP010785065, ISBN: 978-1-58053-992-0

Cited by

CN109687073A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2015390 A2 20090114; EP 2015390 A3 20090729; IT MI20071253 A1 20081223

DOCDB simple family (application)

EP 08008671 A 20080508; IT MI20071253 A 20070622