

Title (en)

Uncalibrated metal diaphragm antenna diplexer

Title (de)

Verbesserter nicht kalibrierter Metalldiafragma-Antennendiplexer

Title (fr)

Diplexeur d'antenne à diaphragme métallique non étalonné amélioré

Publication

**EP 2296218 A1 20110316 (EN)**

Application

**EP 10176357 A 20100913**

Priority

- IT MI20091578 A 20090915
- IT MI20101370 A 20100726

Abstract (en)

An antenna diplexer of an uncalibrated metal diaphragm type, comprising an outer casing (2) made of a metal conductive material therewithin is arranged a metal reed element longitudinally extending with respect to said diplexer and thereon are formed a plurality of diaphragm elements (6) defining resonating cavities (7) therebetween, on said casing (2) being moreover provided signal input/output guides (8, 9) and a T-shape joint (5), characterized in that the first/last resonating cavity (7a) is formed at said input/output guide (8, 9).

IPC 8 full level

**H01P 1/213** (2006.01)

CPC (source: EP)

**H01P 1/2138** (2013.01)

Citation (search report)

- [XY] WO 9916146 A1 19990401 - ITALTEL SPA [IT], et al
- [A] GB 2359197 A 20010815 - BSC FILTERS LTD [GB]
- [A] US 2007139135 A1 20070621 - AMMAR DANNY F [US], et al
- [YA] AMARI S ET AL: "Novel<tex>E</tex>-Plane Filters and Diplexers With Elliptic Response for Millimeter-Wave Applications", IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, IEEE SERVICE CENTER, PISCATAWAY, NJ, US LNKD- DOI:10.1109/TMTT.2004.842506, vol. 53, no. 3, 1 March 2005 (2005-03-01), pages 843 - 851, XP011128129, ISSN: 0018-9480
- [A] VAHLIDIECK R ET AL: "Millimeter wave filters for low-cost mass-fabrication", MICROWAVE CONFERENCE, 2001. APMC 2001. 2001 ASIA-PACIFIC DECEMBER 3-6, 2001, PISCATAWAY, NJ, USA, IEEE, PISCATAWAY, NJ, USA, 3 December 2001 (2001-12-03), pages 513 - 518VOL.2, XP031437832, ISBN: 978-0-7803-7138-5

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 SE SI SK SM TR

Designated extension state (EPC)

BA ME RS

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