

Title (en)

A ROTATOR DEVICE FOR CONNECTING NON-ALIGNED WAVEGUIDES AND A METHOD OF MANUFACTURE THEREOF

Title (de)

ROTATORVORRICHTUNG ZUR VERBINDUNG VON NICHT AUSGERICHTETEN WELLENLEITERN UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

DISPOSITIF DE ROTATION POUR CONNECTER DES GUIDES D'ONDES NON ALIGNÉS ET SON PROCÉDÉ DE FABRICATION

Publication

EP 3499636 A1 20190619 (EN)

Application

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Priority

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Abstract (en)

A rectangular waveguide rotator device for connecting first and second waveguides, the first and second waveguides being arranged at an angle to each other is disclosed. The rotator device comprises: at least one rotator portion, the at least one rotator portion comprising a passage formed by outer walls comprising two longer walls connected by two shorter end walls; the at least one rotator portion comprising a ridge protruding from each of the longer side walls across a width of the longer side walls, the ridge lying between a first and a further section of the rotator portion; the first and further sections of the rotator portion being configured such that they are at an angle with respect to each other, one section being rotated through an angle with respect to the other.

IPC 8 full level

H01P 1/02 (2006.01); **H01P 1/165** (2006.01); **H01P 5/02** (2006.01)

CPC (source: EP)

H01P 1/022 (2013.01); **H01P 1/165** (2013.01); **H01P 5/024** (2013.01)

Citation (applicant)

- WHEELER; SCHIEBERT: "Step-Twist Waveguide Components", IRE TRANSACTIONS - MICROWAVE THEORY AND TECHNIQUES, October 1955 (1955-10-01)
- RUIZ-CRUZ ET AL.: "Multi-Section Bow-Tie Steps for Full-Band Waveguide Polarization Rotation", IEEE MICROWAVE AND WIRELESS COMPONENT LETTERS, vol. 20, no. 7, July 2010 (2010-07-01), XP011347818, DOI: doi:10.1109/LMWC.2010.2049428

Citation (search report)

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- [A] JP S60129702 U 19850830

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Designated contracting state (EPC)

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