

Title (en)

STRIP LINE DIRECTIONAL COUPLER AND COUPLING DEGREE ADJUSTMENT METHOD THEREOF

Title (de)

STREIFENLEITUNGSRICHTKOPPLER UND VERFAHREN ZUM EINSTELLEN DES KOPPLUNGSGRADES DAFÜR

Title (fr)

COUPLEUR DIRECTIONNEL DE LIGNE RUBAN ET PROCÉDÉ DE RÉGLAGE DE DEGRÉ DE COUPLAGE ASSOCIÉ

Publication

**EP 3734751 A4 20210127 (EN)**

Application

**EP 18896853 A 20180727**

Priority

- CN 201711483060 A 20171229
- CN 2018097592 W 20180727

Abstract (en)

[origin: EP3734751A1] Disclosed in the invention are a strip line directional coupler and a coupling degree adjustment method thereof, wherein the directional coupler comprises: a first grounding layer, a strip line layer and a second grounding layer that are orderly stacked; the strip line layer comprises a first line and a second line, the first line and the second line are provided with coupling sections that are close to each other, and the first grounding layer and/or the second grounding layer are provided with adjustment zones that are facing or close to the coupling sections, wherein the adjustment zones are provided with openings for coupling degree adjustment. The adjustment zones of the grounding layers are provided with the openings for coupling degree adjustment. Through changes of the shape, area and quantity of the openings, current distribution of the strip line is changed, the coupling degree is adjusted, and the adjustment of the coupling degree is simple and effective.

IPC 8 full level

**H01P 5/18** (2006.01)

CPC (source: CN EP)

**H01P 5/184** (2013.01 - CN EP)

Citation (search report)

- [XAI] WO 2010041789 A1 20100415 - ACE TECH CORP [KR], et al
- [X] JP 2014165823 A 20140908 - MITSUBISHI ELECTRIC CORP
- [X] US 2014292440 A1 20141002 - HIROTA AKIMICHI [JP], et al
- See references of WO 2019128215A1

Designated contracting state (EPC)

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