

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 B1 20221026 (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)

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

DOCDB simple family (publication)

EP 3734751 A1 20201104; EP 3734751 A4 20210127; EP 3734751 B1 20221026; CA 3097049 A1 20190704; CA 3097049 C 20231017; CN 108023154 A 20180511; CN 108023154 B 20210528; WO 2019128215 A1 20190704

DOCDB simple family (application)

EP 18896853 A 20180727; CA 3097049 A 20180727; CN 201711483060 A 20171229; CN 2018097592 W 20180727