

Title (en)

HIGH-FREQUENCY COUPLER OR POWER SPLITTER, ESPECIALLY A NARROW-BAND 3DB COUPLER OR POWER SPLITTER

Title (de)

HOCHFREQUENZKOPPLER ODER LEISTUNGSTEILER, INSBESONDERE SCHMALBANDIGER UND/ODER 3dB-KOPPLER ODER LEISTUNGSTEILER

Title (fr)

COUPLEUR HAUTE FREQUENCE OU DIVISEUR DE PUISSANCE, NOTAMMENT COUPLEUR HAUTE FREQUENCE 3 DB OU DIVISEUR DE PUISSANCE A BANDE ETROITE

Publication

**EP 1867003 A1 20071219 (DE)**

Application

**EP 06707501 A 20060309**

Priority

- EP 2006002189 W 20060309
- DE 102005016054 A 20050407

Abstract (en)

[origin: WO2006105847A1] The invention relates to an improved coupler or power splitter, especially an HF coupler or an HF power splitter, characterised by the following: the four connection lines (13a, 13b; 17a, 17b) are arranged on the same side (3a) of the substrate (3); the two coupling zones (9; 25) are formed on the substrate on two opposite sides (3a, 3b); the second coupling zone (25) is connected to the associated connection lines (17a, 17b) arranged on the side (3a) of the substrate (3) opposing the coupling zone (25), by means of two via holes (21) in an electroplated manner; the capacitors (C-9a, C-9b, C- 9c, C- 9d; C-25a, C-25b, C-25c, C-25d) provided at the beginning (IIa; 18a) and at each end (IIb; 18b) of each coupling zone (9, 25) are respectively embodied as interdigital capacitors; and the capacitors (C-9a, C-9b, C-9c, C-9d; C-25a, C-25b, C-25c, C-25d) are respectively coupled to earth.

IPC 8 full level

**H01P 5/18** (2006.01)

CPC (source: EP US)

**H01P 5/187** (2013.01 - EP US)

Citation (search report)

See references of WO 2006105847A1

Cited by

DE102014004007A1; WO2015139813A1; US10243249B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2006105847 A1 20061012**; AT E409360 T1 20081015; CN 101213705 A 20080702; CN 101213705 B 20100721; DE 102005016054 A1 20061012; DE 502006001639 D1 20081106; EP 1867003 A1 20071219; EP 1867003 B1 20080924; EP 1867003 B9 20090826; US 2009051462 A1 20090226

DOCDB simple family (application)

**EP 2006002189 W 20060309**; AT 06707501 T 20060309; CN 200680005434 A 20060309; DE 102005016054 A 20050407; DE 502006001639 T 20060309; EP 06707501 A 20060309; US 88793306 A 20060309