

Title (en)
LOOP DIRECTIONAL COUPLER

Title (de)
SCHLEIFENRICHTKOPPLER

Title (fr)
COUPLEUR DIRECTIONNEL À BOUCLE

Publication
EP 2171793 A1 20100407 (DE)

Application
EP 08784853 A 20080717

Priority
• EP 2008005873 W 20080717
• DE 202007010239 U 20070724

Abstract (en)
[origin: US8121574B2] A loop directional coupler having a first waveguide, particularly a hollow, planar, or a coaxial conductor in the form of a half loop antenna having first and second antenna branches for the contact-free extraction of an incoming signal "a" on a second waveguide and a returning signal "b" on the second waveguide. The first antenna branch is connected to a first input of a first network and the second antenna branch is connected to a second input of the first network, the first network having a first power splitter at the first input and a second power splitter at the second input for dividing the signal present at each antenna branch, the first network having a first adder adding the signals of the first and second power splitters to each other, and a first subtractor subtracting the signals of the first and second power splitters from each other.

IPC 8 full level
H01P 5/18 (2006.01)

CPC (source: EP US)
H01P 5/18 (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
US 2010271150 A1 20101028; US 8121574 B2 20120221; AT E490570 T1 20101215; CA 2695462 A1 20090129; CA 2695462 C 20151124; CN 101809808 A 20100818; CN 101809808 B 20130821; DE 202007010239 U1 20070920; DE 502008001958 D1 20110113; EP 2171793 A1 20100407; EP 2171793 B1 20101201; HK 1147601 A1 20110812; JP 2010534436 A 20101104; JP 4914936 B2 20120411; TW M349635 U 20090121; WO 2009012937 A1 20090129

DOCDB simple family (application)
US 67026708 A 20080717; AT 08784853 T 20080717; CA 2695462 A 20080717; CN 200880108399 A 20080717; DE 202007010239 U 20070724; DE 502008001958 T 20080717; EP 08784853 A 20080717; EP 2008005873 W 20080717; HK 11101480 A 20110216; JP 2010517306 A 20080717; TW 97212807 U 20080718