

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)  
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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)  
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