

Title (en)

ARRANGEMENT FOR COUPLING WAVES FROM A WAVEGUIDE TO A SEMICONDUCTOR COMPONENT

Publication

EP 0231473 B1 19920617 (DE)

Application

EP 86116758 A 19861202

Priority

DE 3603454 A 19860205

Abstract (en)

[origin: US4734667A] An arrangement for coupling waveguide modes between two waveguides via a semiconductor element. The two waveguides each have a short-circuiting end wall and a common side wall constituting a common partition wall between the waveguides so that the two waveguides extend parallel to, and overlap one another at least over a partial length where they are separated from one another by the common side wall. The common partition wall is provided with a coupling aperture and the semiconductor element is inserted into the coupling aperture between the two waveguides and is in ground contact with the common partition wall. The semiconductor element has two connecting arms, one connecting arm extending as a coupling probe into one of the waveguides and the other connecting arm extending as a coupling probe into the other waveguide.

IPC 1-7

H01P 5/103

IPC 8 full level

H01P 5/103 (2006.01)

CPC (source: EP US)

H01P 5/103 (2013.01 - EP US)

Cited by

US6727845B2; WO0167542A1

Designated contracting state (EPC)

DE FR IT NL

DOCDB simple family (publication)

EP 0231473 A2 19870812; EP 0231473 A3 19880914; EP 0231473 B1 19920617; CA 1263457 A 19891128; DE 3603454 A1 19870806; DE 3685745 D1 19920723; US 4734667 A 19880329

DOCDB simple family (application)

EP 86116758 A 19861202; CA 528831 A 19870203; DE 3603454 A 19860205; DE 3685745 T 19861202; US 1078987 A 19870204