

Title (en)  
MICROWAVE WAVEGUIDE-COUPLER

Publication  
**EP 0041877 B1 19840718 (FR)**

Application  
**EP 81400789 A 19810519**

Priority  
FR 8012864 A 19800610

Abstract (en)  
[origin: EP0041877A1] 1. A microwave coupler comprising two parallel wave guides (2, 5) having a common conducting wall (7) the thickness of which is approximately  $\lambda/4$ ,  $\lambda$  constituting the guided wavelength corresponding to the center of the desired frequency band, this wall being provided with slots (31, 32, 33, 34, 35) extending parallelly to the cross-section of the two wave guides (2, 5), characterized in that, the wave guides to which the coupler is connected having two ribs, the two wave guides (2, 5) of the coupler comprise each a rib (10, 15) extending parallelly to the direction of propagation in the wave guide, each rib (10, 15) being attached to that wave guide wall which is parallel to the common wall (7), this common wall being without rib.

IPC 1-7  
**H01P 5/18**

IPC 8 full level  
**H01P 5/18** (2006.01)

CPC (source: EP)  
**H01P 5/182** (2013.01)

Cited by  
US5456813A; US5105170A; GB2237692A; GB2237692B; GB2233831A; GB2233831B; GB2206454A; FR2617646A1; GB2206454B

Designated contracting state (EPC)  
DE GB IT

DOCDB simple family (publication)  
**EP 0041877 A1 19811216; EP 0041877 B1 19840718; DE 3164867 D1 19840823; FR 2484154 A1 19811211; FR 2484154 B1 19841130**

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