

Title (en)  
REFLEXION PHASE-SHIFTER

Publication  
**EP 0163005 B1 19880427 (DE)**

Application  
**EP 85101600 A 19850214**

Priority  
DE 3415674 A 19840427

Abstract (en)  
[origin: US4613835A] A reflection phase shifter connectable to a waveguide for shifting the phase of a high frequency signal received from the waveguide. The phase shifter includes a waveguide section having two pairs of opposite side walls and an end wall forming a short-circuit. The side walls define a cavity and an opening opposite to the end wall for communication with the waveguide. The waveguide section has a broad dimension between one pair of opposite side walls corresponding to the width dimension of the waveguide and a narrow dimension between the other pair of opposite side walls which is smaller than the height dimension of the waveguide. A switchable semiconductor arrangement, including a switching semiconductor element and a housing for accommodating the switching semiconductor element, is adjustably mounted in a side wall of the waveguide section and penetrates into the said cavity with a controllable penetration depth for tuning said waveguide section for a desired phase angle shift. A tuning pin is mounted in a side wall of the waveguide section so that the tuning pin is disposed opposite the switchable semiconductor arrangement.

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**H01P 1/185**

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