Title (en)

MODE CONVERTER

Publication

EP 0374720 A3 19910327 (DE)

Application

EP 89123060 A 19891213

Priority

DE 3843259 A 19881222

Abstract (en)

[origin: EP0374720A2] It is intended to specify a mode converter which can be produced as simply as possible and which manages without calibration devices. This object is achieved by an arrangement consisting of a circular wave guide (RH), in the wall of which a coupling opening (K1, K2) with a diaphragm (B1, B2) is arranged, and a splitting plate (TB1, TB2) inserted in the circular wave guide, which begins in the area of the coupling opening (K1, K2) and extends in the circular wave guide (RH) into the area where the propagation of a wave to be coupled in or out via the coupling opening is to be prevented. The splitting plate (TB1, TB2) begins at its end located in the area of the coupling opening (K1, K2) with a narrow width and widens towards the other end to a width adapted to the inside dimensions of the circular wave guide. Into the splitting plate (TB1, TB2), several slots (S1, S2) are inserted which are arranged and dimensioned in such a manner that interfering resonances caused by the splitting plate (TB1, TB2) are suppressed. Two such mode converters can be used for making an inexpensive polarisation switch. <IMAGE>

IPC 1-7

H01P 1/161

IPC 8 full level

H01P 1/161 (2006.01)

CPC (source: EP)

H01P 1/161 (2013.01)

Citation (search report)

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Designated contracting state (EPC)

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