

Title (en)

WAGEGUIDE MULTIPLEXER/DEMULTIPLEXER

Title (de)

HOHLLEITERMULTIPLEXER/-DEMULTIPLEXER

Title (fr)

MULTIPLEXEUR-DEMULTIPLEXEUR DE GUIDE D'ONDES

Publication

**EP 0693229 B1 19970611 (DE)**

Application

**EP 94910348 A 19940318**

Priority

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Abstract (en)

[origin: DE4340123A1] A waveguide multiplexer/demultiplexer which saves space and weight has a rectangular trunk waveguide short-circuited at one end (SH). In at least one side wall (S1, S2) of the trunk waveguide, at least one pair of coupling openings (K1, K4; K2, K5; K3, K6) is present, which are arranged next to one another in a direction transverse to the longitudinal axis of the trunk waveguide (SH), each coupling opening having a separation from the short-circuit plane (KE) of the trunk waveguide (SH) which corresponds to an odd multiple of a quarter of the mean wavelength of the frequency channel to be coupled via the corresponding coupling opening. The two coupling openings (K1, K4; K2, K5; K3, K6) are arranged shifted from the middle of the side wall (S1) towards the edges thereof to such an extent that a waveguide filter can be coupled to the trunk waveguide (SH) via each coupling opening (K1 ... K6). <IMAGE>

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**H01P 1/213**

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