

Title (en)  
POWER DIVIDER

Title (de)  
LEISTUNGSTEILER

Title (fr)  
DIVISEUR DE PUISSANCE

Publication  
**EP 3832791 B1 20231115 (EN)**

Application  
**EP 19212846 A 20191202**

Priority  
EP 19212846 A 20191202

Abstract (en)  
[origin: EP3832791A1] A waveguide arrangement comprises a cuboid-shaped waveguide coupled to a plurality of output waveguides and an input waveguide coupled to the cuboid-shaped waveguide. A propagation direction of an electromagnetic wave guided through the input waveguide is perpendicular to propagation directions of electromagnetic waves, which are guided through the output waveguide. The waveguide arrangement is configured to split an electromagnetic wave provided into the input waveguide into a plurality of electromagnetic waves guided through the output waveguides, wherein a power ratio of the plurality of electromagnetic waves travelling through the output waveguides is defined by an angle,  $\alpha$ , enclosed by a polarization of the wave guided by the input waveguide and a surface of the cuboid-shaped waveguide on which a output waveguide is arranged.

IPC 8 full level  
**H01P 5/22** (2006.01)

CPC (source: EP)  
**H01P 5/22** (2013.01)

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 3832791 A1 20210609; EP 3832791 B1 20231115**

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