Title (en)

RADIATION-OPTICAL COMPONENT

Title (de)

STRAHLUNGSOPTISCHES BAUELEMENT

Title (fr)

COMPOSANT RADIO-OPTIQUE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2006000195A1] Absorbing or reflective channels are used for specifically limiting the wavelength spectrum or the divergence of radiation. Said channels are provided with a triangular transmission profile, by means of which no maximum transmission can be obtained, or a rectangular transmission profile, where the wavelength/divergence parameter correlation of half of the transmitted radiation is disturbed. The inventive radiation-optical component (SB) is based on the principle according to which only the portion of radiation that is not needed is influenced. Said component (SB) can be used as a wavelength filter or angular filter. According to the invention, a maximum portion of radiation is transmitted without being influenced while the portion of radiation that is not needed is first reflected out of the beam path and onto at least two radiation-reflecting layers (RS₁, RS₂) which extend at a tilted angle (± ß) across the width (d) of the channel (K) and is then absorbed on radiation-absorbing layers (SA) that are spatially separated therefrom. The two radiation-reflecting layers (RS₁, RS₂) that extend at an angle can be arranged relative to each other in a V-shaped or X-shaped manner while several pairs (P_i) thereof can be disposed parallel to each other in order to shorten the channel. In an alternative embodiment, the radiation-reflecting layers can also be structured in a bender-type fashion.

IPC 8 full level

G21K 1/00 (2006.01); **G21K 1/02** (2006.01)

CPC (source: EP)

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