Title (en)

OPTICAL COMPONENT

Title (de)

OPTISCHE KOMPONENTE

Title (fr)

COMPOSANT OPTIQUE

Publication

EP 4222558 A1 20230809 (DE)

Application

EP 21785835 A 20210928

Priority

- DE 102020212367 A 20200930
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Abstract (en)

[origin: WO2022069427A1] An optical component has a diffractive structure (7) for diffractively influencing a direction of emergence of light of at least one wavelength which is incident on the optical component. The diffractive structure (57) has at least two diffractive substructures (41, 47), with first diffractive positive structures (42) and first diffractive negative structures (43), the diffractive substructures being superposed on each other in at least one portion of the optical component. A first of the diffractive substructures (41) has first diffractive positive structures (42) and first diffractive negative structures (43), the arrangement of which follows a first symmetry condition. A second of the diffractive substructures (47) has second diffractive positive structures (42) and second diffractive negative structures (43), the arrangement of which follows a second symmetry condition which is different from the first symmetry condition. The result is an optical component for which the production of a diffractive structure having a diffractive effect for different target wavelengths and/or having an improved diffractive effect for one and the same target wavelength is made flexible.

IPC 8 full level

G03F 7/20 (2006.01); **G21K 1/06** (2006.01)

CPC (source: EP US)

G03F 7/70033 (2013.01 - EP US); **G03F 7/7015** (2013.01 - EP); **G03F 7/70158** (2013.01 - US); **G03F 7/70175** (2013.01 - EP); **G03F 7/70191** (2013.01 - EP US); **G03F 7/70575** (2013.01 - EP US); **G21K 1/067** (2013.01 - EP)

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

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