

Title (en)

PUPIL EXPANDER WITH IMPROVED COLOR UNIFORMITY

Title (de)

PUPILLENAUFWEITER MIT VERBESSERTER FARBGLEICHMÄSSIGKEIT

Title (fr)

EXPANSEUR DE PUPILLE À UNIFORMITÉ DE COULEUR AMÉLIORÉE

Publication

EP 4111252 A1 20230104 (EN)

Application

EP 21705747 A 20210120

Priority

- US 202016799499 A 20200224
- US 2021014051 W 20210120

Abstract (en)

[origin: WO2021173253A1] An optical waveguide comprises one or more upstream diffraction gratings in addition to overlapping first and second downstream diffraction gratings. The one or more upstream diffraction gratings include a first upstream diffraction grating configured to receive display light and to release the display light expanded along a first axis. The first and second downstream diffraction gratings are configured to receive the display light expanded along the first axis and to cooperatively release the display light further expanded along a second axis. The first downstream diffraction grating is arranged on a planar face of the optical waveguide and is further configured to further expand along the first axis the display light expanded along the first axis.

IPC 8 full level

G02B 27/01 (2006.01)

CPC (source: EP)

G02B 27/0172 (2013.01); **G02B 2027/0112** (2013.01); **G02B 2027/0116** (2013.01); **G02B 2027/0174** (2013.01)

Citation (search report)

See references of WO 2021173253A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

Designated validation state (EPC)

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DOCDB simple family (publication)

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