

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
23 December 2021 (23.12.2021)



(10) International Publication Number
WO 2021/255332 A1

(51) International Patent Classification:

G02B 5/18 (2006.01) C23C 14/04 (2006.01)
G02B 27/01 (2006.01) C23C 16/04 (2006.01)
G02B 6/00 (2006.01)

(21) International Application Number:

PCT/FI2021/050428

(22) International Filing Date:

09 June 2021 (09.06.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

20205642 17 June 2020 (17.06.2020) FI

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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN,
KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD,
ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO,
NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW,
SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,
TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,

(54) Title: MANUFACTURING METHOD OF OPTICAL ELEMENT, OPTICAL ELEMENT AND APPARATUS FOR MANU-
FACTURING OPTICAL ELEMENT

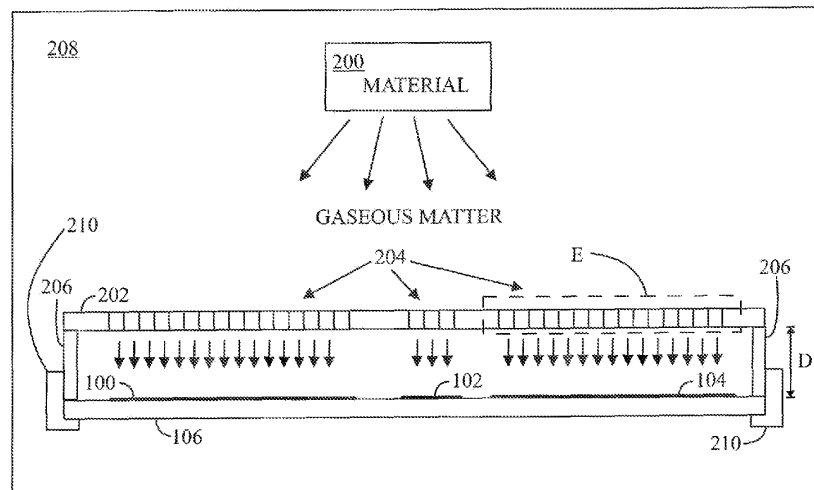


FIG. 2

(57) Abstract: A manufacturing method of an optical element (10) of an augmented reality eyewear. At least one layer (300) of a material (200) is deposited on a waveguide (106) through perforations (204) of a plate (202) at a non-zero distance (D) from the waveguide (106). Height of the at least one layer (300) is made to vary in response to cross sectional areas of the perforations (204), which vary based on a location of the perforations (204) in the plate (202) for forming at least one diffractive grating (100, 102, 104) on the waveguide (106) from the at least one layer (300), the at least one diffractive grating (100, 102, 104) performing in-coupling and/or out-coupling of visible light between the waveguide (106) and environment.

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TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

Published:

- *with international search report (Art. 21(3))*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*