

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
07 August 2025 (07.08.2025)



(10) International Publication Number
WO 2025/165894 A1

(51) International Patent Classification:

G02B 27/01 (2006.01) G02B 6/26 (2006.01)
G02B 25/00 (2006.01) G02B 6/34 (2006.01)
G02B 13/00 (2006.01) G02B 6/00 (2006.01)
G02B 27/18 (2006.01)

(21) International Application Number:

PCT/US2025/013615

(22) International Filing Date:

29 January 2025 (29.01.2025)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/626,945 30 January 2024 (30.01.2024) US
63/631,808 09 April 2024 (09.04.2024) US

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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, CV, CZ, DE, DJ, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG,

(54) Title: LIGHT ENGINE AND WAVEGUIDE ASSEMBLY WITH SWAPPABLE PRESCRIPTION LENS FUNCTIONALITY

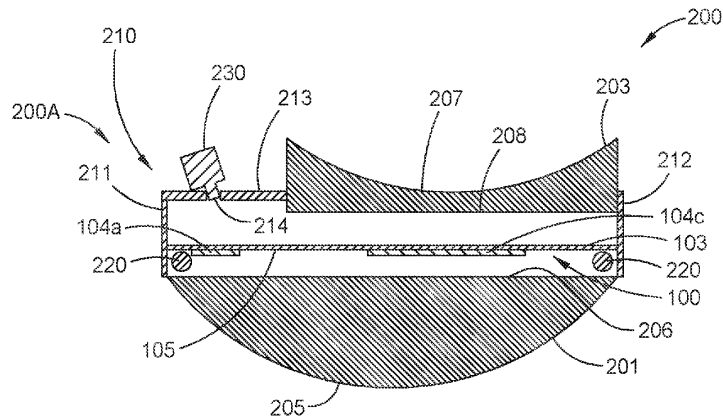


FIG. 2

(57) Abstract: The present disclosure relates to augmented reality optical device assemblies with a swappable prescription lens function, and related apparatus and methods. In one or more embodiments, an optical device assembly includes a carrier. The carrier has a first carrier portion and a second carrier portion. The optical device assembly further includes a push lens coupled to the first carrier portion and the second carrier portion. The first carrier portion and the second carrier portion are spaced to retain the push lens. The optical device assembly further includes a waveguide disposed over a waveguide-side surface of the push lens between the first carrier portion and the second carrier portion. The waveguide includes at least an incoupler grating disposed over a first surface or a second surface opposing the first surface of the waveguide. The first carrier portion includes a projection portion operable to retain a projector aligned with incoupler grating.

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KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY,
MA, MD, MG, MK, MN, MU, 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, UY, UZ, VC, VN,
WS, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))