

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
27 January 2022 (27.01.2022)



(10) International Publication Number
WO 2022/018080 A1

(51) International Patent Classification:

G02C 11/00 (2006.01) G08B 21/02 (2006.01)
A61B 3/113 (2006.01) G02C 7/06 (2006.01)
A61B 5/11 (2006.01) G02C 7/02 (2006.01)

(21) International Application Number:

PCT/EP2021/070266

(22) International Filing Date:

20 July 2021 (20.07.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

20305849.0 23 July 2020 (23.07.2020) EP

(71) Applicant: **ESSILOR INTERNATIONAL** [FR/FR]; 147
rue de Paris, 94220 CHARENTON-LE-PONT (FR).

(72) Inventors: **DROBE, Bjorn**; C/O ESSILOR AMERA PTE
LTD, 215 Kallang Bahru, Essilor Building, Singapore
39346 (SG). **YANG, Adeline**; C/O ESSILOR AMERA
PTE LTD, 215 Kallang Bahru, Essilor Building, Singapore
39346 (SG).

(74) Agent: **CHAUVIN, Vincent** et al.; JACOBACCI
CORALIS HARLE, 32 rue de l'Arcade, 75008 PARIS (FR).

(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

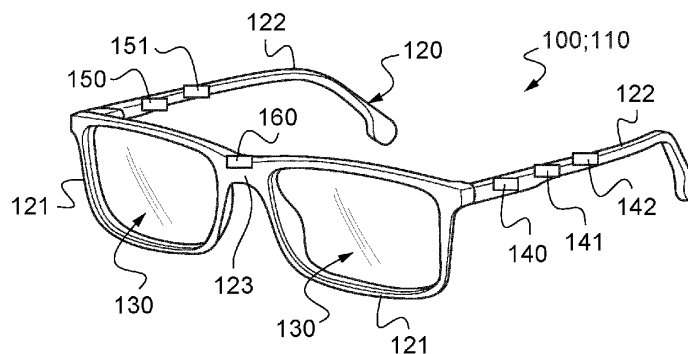
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,
TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MK, MT, NL, NO, PL, PT, RO, RS,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

(54) Title: OPTICAL DEFICIENCY MONITORING EQUIPMENT COMPRISING A PAIR OF EYEGLASSES

Fig.1



(57) Abstract: The invention relates to a monitoring equipment (100) comprising an eyewear (110) that includes: - a frame (120), - at least one lens (130) that is fixed to the frame and that is able to change the natural evolution of an optical deficiency, - a wearing sensor (140) able to determine if the eyewear is being worn by a wearer, and - a processing unit (150) that is programmed to: - acquire the data determined by the wearing sensor, - deduce therefrom a parameter relative to the length of time the wearer has worn the eyewear during a predetermined period, and - compare said parameter with at least a predetermined datum to determine a level of efficiency of the optical deficiency treatment.



WO 2022/018080 A1