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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
16 December 2021 (16.12.2021)

WIPO | PCT

(10) International Publication Number
WO 2021/252319 A1

(51) International Patent Classification:
A61N 5/06 (2006.01)

(21) International Application Number:
PCT/US2021/036100

(22) International Filing Date:
07 June 2021 (07.06.2021)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

63/036,226	08 June 2020 (08.06.2020)	US
62/706,153	03 August 2020 (03.08.2020)	US
62/706,456	18 August 2020 (18.08.2020)	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, 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))*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

(54) Title: PROJECTION OF DEFOCUSED IMAGES ON THE PERIPHERAL RETINA TO TREAT REFRACTIVE ERROR

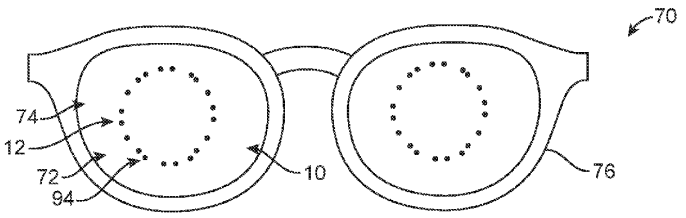


FIG. 1A

(57) Abstract: An apparatus to treat refractive error of the eye comprises one or more optics configured to project stimuli comprising out of focus images onto the peripheral retina outside the macula. While the stimuli can be configured in many ways, in some embodiments the stimuli are arranged to decrease interference with central vison such as macular vision. The stimuli can be out of focus images may comprise an amount of defocus within a range from about 3 Diopters ("D") to about 6 D. In some embodiments, the brightness of the stimuli is greater than a brightness of background illumination by an appropriate amount such as at least 3 times the background brightness. In some embodiments, each of a plurality of stimuli comprises a spatial frequency distribution with an amplitude profile having spatial frequencies within a range from about range of $1X10^{-1}$ to $2.5X10^{1}$ cycles per degree.

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