



- (51) **International Patent Classification:**
A61B 3/028 (2006.01) A61B 3/10 (2006.01)
A61B 3/032 (2006.01)
- (21) **International Application Number:**
PCT/US2018/056034
- (22) **International Filing Date:**
16 October 2018 (16.10.2018)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
15/785,984 17 October 2017 (17.10.2017) 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, 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, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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).

(54) **Title:** REFRACTION DEVICES

(57) **Abstract:** A refraction device includes a main body, a spherical power lens coupled to the main body, an astigmatic power lens movably coupled to the main body, and a visual display coupled to the main body and oriented toward an optical pathway extending through the spherical power lens and the astigmatic power lens. The visual display is configured to display an image for testing visual acuity.

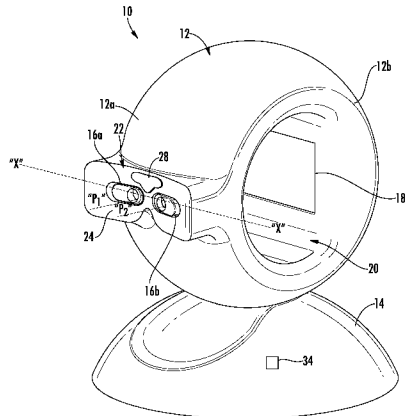


FIG. 1



Published:

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

(88) Date of publication of the international search report:

02 April 2020 (02.04.2020)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2018/056034

A. CLASSIFICATION OF SUBJECT MATTER
 IPC(8) - A61B 3/028; A61B 3/032; A61B 3/10 (2018.01)
 CPC - A61B 3/028; A61B 3/0033; A61B 3/0041 (2018.08)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 See Search History document

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 USPC - 351/205; 351/233; 351/239 (keyword delimited)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 See Search History document

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ---	US 2006/0050238 A1 (NAKAMURA et al) 09 March 2006 (09.03.2006) entire document	1, 2, 14, 15, 17, 19 ---
Y		3, 5, 6
Y	US 7,156,517 B2 (HOSOI) 02 January 2007 (02.01.2007) entire document	3, 5, 6
A	US 7,289,254 B2 (AVUDAINAYAGAM et al) 30 October 2007 (30.10.2007) entire document	1-20

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

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"&" document member of the same patent family

Date of the actual completion of the international search

26 November 2018

Date of mailing of the international search report

26 DEC 2018

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