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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
3 June 2010 (03.06.2010)

PCT

(10) International Publication Number
WO 2010/062504 A3

(51) International Patent Classification:
A61F 9/02 (2006.01)

(21) International Application Number:
PCT/US2009/061458

(22) International Filing Date:
21 October 2009 (21.10.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/108,957 28 October 2008 (28.10.2008) US
12/577,322 12 October 2009 (12.10.2009) US

(71) Applicant *(for all designated States except US)*: **JOHNSON & JOHNSON VISION CARE, INC.** [US/US]; 7500 Centurion Parkway, Jacksonville, FL 32256 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **OTTS, Daniel, B.** [US/US]; 4051 Lionheart Drive, Jacksonville, FL 32216 (US). **PUGH, Randall, B.** [US/US]; 3216 Chestnut Court, Jacksonville, FL 32259 (US). **FLITSCH, Frederick, A.** [US/US]; 25 Twin Ponds Road, New Windsor, NY 12553 (US).

(74) Agents: **JOHNSON, Philip, S.** et al.; Johnson & Johnson, One Johnson & Johnson Plaza, New Brunswick, NJ 08933 (US).

(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, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,

[Continued on next page]

(54) Title: APPARATUS AND METHOD FOR ACTIVATION OF COMPONENTS OF AN ENERGIZED OPHTHALMIC LENS

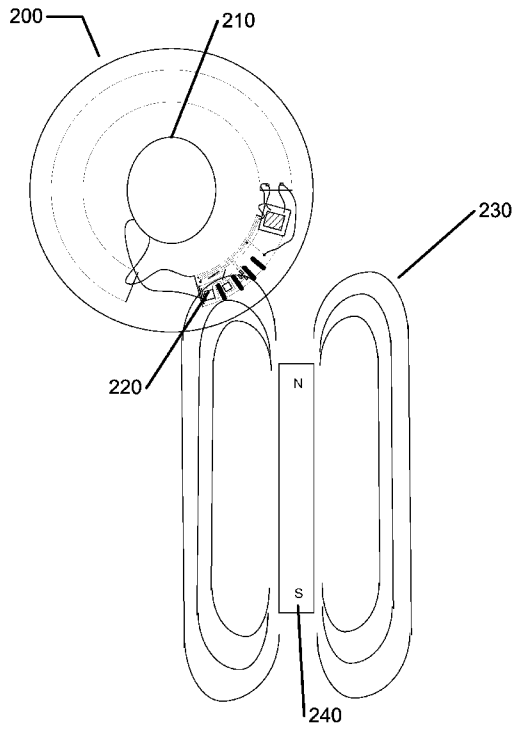


Fig 2

(57) Abstract: This present invention provides apparatus and methods for the activation of an energized ophthalmic lens. In some embodiments, the present invention provides for activation and deactivation of one or more components via wireless communication with an activation unit (220) external to the ophthalmic lens (200). In some embodiments, an energized ophthalmic lens contains components which detect external signals, process the detected signal and activate components that change optical characteristics via the control of electrical energy.

WO 2010/062504 A3

MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— *as to the identity of the inventor (Rule 4.17(i))*

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

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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))*

(88) Date of publication of the international search report:
14 October 2010