

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
28 February 2008 (28.02.2008)

PCT

(10) International Publication Number
WO 2008/024414 A2

(51) International Patent Classification:
G02C 7/10 (2006.01)

(21) International Application Number:

PCT/US2007/018593

(22) International Filing Date: 23 August 2007 (23.08.2007)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/839,432 23 August 2006 (23.08.2006) US

60/841,502 1 September 2006 (01.09.2006) US

60/861,247 28 November 2006 (28.11.2006) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, 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, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

(54) Title: SYSTEM AND METHOD FOR SELECTIVE LIGHT INHIBITION

(57) Abstract: A film suitable for use in an ophthalmic system is provided. The film may selectively inhibit blue light within the wavelength range of 400 nm to 460 nm to reduce phototoxic light to the eye while maintaining photopic vision, and may be color balanced to allow for the system into which the film is incorporated to be perceived as colorless to a viewer observing and/or using the system. The system may have a photopic and scotopic luminous transmission of 85% or more and a phototoxicity ratio of less than 80%. When used in an ophthalmic system or other system disposed between an observer's eye and a light source, the film may reduce the flux of blue light to the internal structures of the eye while reducing or minimizing dilation of the pupil.



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