



(43) International Publication Date
13 December 2012 (13.12.2012)

WIPO | PCT

(10) International Publication Number
WO 2012/169415 A1

(51) International Patent Classification:

G02B 5/20 (2006.01) *G03F 7/004* (2006.01)
C09B 23/00 (2006.01) *H04N 9/07* (2006.01)
G02B 5/22 (2006.01)

(21) International Application Number:

PCT/JP2012/064017

(22) International Filing Date:

24 May 2012 (24.05.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2011-126294 6 June 2011 (06.06.2011) JP
2012-096541 20 April 2012 (20.04.2012) JP

(71) Applicant (for all designated States except US): **FUJIFILM Corporation** [JP/JP]; 26-30, Nishiazabu 2-chome, Minato-ku, Tokyo, 1068620 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **TAGUCHI, Hiroshi** [JP/JP]; c/o FUJIFILM Corporation, 4000, Kawashiri, Yoshida-cho, Haibara-gun, Shizuoka, 4210396 (JP). **MURO, Naotsugu** [JP/JP]; c/o FUJIFILM Corporation, 4000, Kawashiri, Yoshida-cho, Haibara-gun, Shizuoka, 4210396 (JP). **YAMADA, Makoto** [JP/JP]; c/o FUJIFILM Corporation, 4000, Kawashiri, Yoshida-cho, Haibara-gun, Shizuoka, 4210396 (JP).

(74) Agents: **NAKAJIMA, Jun** et al.; TAIYO, NAKAJIMA & KATO, Seventh Floor, HK-Shinjuku Bldg., 3-17, Shinjuku 4-chome, Shinjuku-ku, Tokyo, 1600022 (JP).

(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, 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, QA, RO, RS, RU, RW, 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, 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, ML, MR, NE, SN, TD, TG).

Published:

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

(54) Title: COLOR FILTER, CCD SENSOR, CMOS SENSOR, ORGANIC CMOS SENSOR, AND SOLID-STATE IMAGE SENSOR

(57) Abstract: A color filter includes: a red pixel in which a transmittance of a light having a wavelength of 400 nm is 15% or less, and a transmittance of a light having a wavelength of 650 nm is 90% or more; a green pixel in which a transmittance of a light having a wavelength of 450 nm is 5% or less, and a transmittance of a light having a wavelength within a range of from 500 nm to 600 nm is 90% or more; and a blue pixel in which a transmittance of a light having a wavelength of 450 nm is 85% or more, a transmittance of a light having a wavelength of 500 nm is from 10% to 50%, and a transmittance of a light having a wavelength of 700 nm is 10% or less.



WO 2012/169415 A1