

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
22 February 2007 (22.02.2007)

PCT

(10) International Publication Number
WO 2007/021580 A2

(51) International Patent Classification:
C08F 26/10 (2006.01)

(21) International Application Number:
PCT/US2006/030424

(22) International Filing Date: 7 August 2006 (07.08.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/707,029 9 August 2005 (09.08.2005) US

(71) Applicant (for all designated States except US): **COOPERVISION INC.** [US/US]; 370 Woodcliff Dr., Suite 200, Fairport, NY 14450 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ALMOND, Sarah, L.** [GB/GB]; Flat 2 Farrington House, 12 Westridge Road, Southampton, Hampshire SO17 2HP (GB). **BROWN-ING, John, H.D.** [GB/GB]; 1 Paddock Way, Alresford, Hampshire SO24 9PN (GB).

(74) Agent: **UXA, Frank, J.**; Stout, Uxa, Buyan & Mullins, 4 Venture, Suite 300, Irvine, 5 92618 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, 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, 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

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMPOSITIONS AND METHODS FOR PRODUCING SILICONE HYDROGEL CONTACT LENSES

(57) Abstract: Compositions, such as lens precursor compositions, and methods for producing lens precursor compositions have been invented. The present methods include forming a premix composition, which can include one or more monomeric components, forming a macromer composition, which includes one or more silicon containing macromers, forming a premix/initiator composition, which can include a photoinitiator, and contacting the premix/initiator composition with the macromer composition to form a polymerizable monomer-containing composition useful in the production of producing silicone hydrogel contact lenses.



WO 2007/021580 A2