

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

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
2 February 2012 (02.02.2012)

PCT

(10) International Publication Number
WO 2012/013948 A1

(51) International Patent Classification:

B29D 11/00 (2006.01) **G02B 1/04** (2006.01)
B29C 33/38 (2006.01) **B65B 25/00** (2006.01)

(21) International Application Number:

PCT/GB2011/051103

(22) International Filing Date:

13 June 2011 (13.06.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/369,116 30 July 2010 (30.07.2010) US

(72) Inventors; and

(71) Applicants : **GOODENOUGH, Neil** [GB/GB]; C/o CooperVision Manufacturing Limited, R&D Pilot Facility, Unit 1, School Lane, Chandlers Ford, Eastleigh Hampshire SO53 4TE (GB). **MORSLEY, David Robert** [GB/GB]; C/o CooperVision Manufacturing Limited, R&D Pilot Facility, Unit 1, School Lane, Chandlers Ford, Eastleigh Hampshire SO53 4TE (GB). **BRUCE, Ian** [GB/GB]; C/o CooperVision Manufacturing Limited, R&D Pilot Facility, Unit 1, School Lane, Chandlers Ford, Eastleigh Hampshire SO53 4TE (GB). **BIALEK, Edyta S** [PL/GB]; C/o CooperVision Manufacturing Limited, R&D Pilot Facility, Unit 1, School Lane, Chandlers Ford, Eastleigh Hampshire SO53 4TE (GB). **NORRIS, Lee Darren** [GB/GB]; C/o CooperVision Manufacturing Lim-

ited, R&D Pilot Facility, Unit 1, School Lane, Chandlers Ford, Eastleigh Hampshire SO53 4TE (GB).

(74) Agent: **CRITTEN, Matthew Peter**; Abel & Imray, 20 Red Lion Street, London, Greater London WC1R 4PQ (GB).

(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, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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: OPHTHALMIC DEVICE MOLDS FORMED FROM WATER-SOLUBLE VINYL ALCOHOL COPOLYMER, OPHTHALMIC DEVICES MOLDED THEREIN, AND RELATED METHODS

(57) Abstract: Ophthalmic device molds made from at least one water-soluble vinyl alcohol copolymer, ophthalmic devices such as ocular inserts and contact lenses and including silicone hydrogel devices formed using these molds, packaged ophthalmic devices present in a solution comprising the at least one water-soluble vinyl alcohol copolymer, and related methods are described. The methods of manufacturing ophthalmic devices can use wet demolding processes, or wet delensing processes or both wet demolding and wet delensing processes involving dissolving the molds in water or an aqueous solution.



WO 2012/013948 A1