



(51) International Patent Classification:

B01D 71/40 (2006.01) **C08J 5/22** (2006.01)
B01D 71/56 (2006.01) **B01D 67/00** (2006.01)
C08F 220/38 (2006.01) **H01M 8/10** (2006.01)
C08F 220/56 (2006.01)

(21) International Application Number:

PCT/GB2012/051568

(22) International Filing Date:

5 July 2012 (05.07.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

1112382.5 19 July 2011 (19.07.2011) GB

(71) Applicant (for all designated States except US): **FUJIFILM MANUFACTURING EUROPE BV** [—/NL]; Oudenstaart 1, NL-5047 TK Tilburg (NL).

(71) Applicant (for MZ only): **FUJIFILM IMAGING COL-ORANTS LIMITED** [—/GB]; PO Box 42, Hexagon Tower, Blackley, Manchester M9 8ZS (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **VAN BERCHUM, Bastiaan** [NL/NL]; Oudenstaart 1, NL-5047 TK Tilburg (NL). **VAN BAAK, Willem** [NL/NL]; Oudenstaart 1, NL-5047 TK Tilburg (NL). **HESSING, Jacko** [NL/NL]; Oudenstaart 1, NL-5047 TK Tilburg (NL).

(74) Agent: **MAYALL, John**; PO Box 42, Hexagon Tower, Blackley, Manchester Greater Manchester M9 8ZS (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, 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))
- 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))

(54) Title: CURABLE COMPOSITIONS AND MEMBRANES

(57) Abstract: A membrane obtainable from curing a composition comprising: (i) a curable compound comprising at least two (meth)acrylic groups and a sulphonic acid group and having a molecular weight which satisfies the equation: $MW < (300 + 300n)$ wherein: MW is the molecular weight of the said curable compound; and n has a value of 1, 2, 3 or 4 and is the number of sulphonic acid groups present in the said curable compound; and optionally (ii) a curable compound having one ethylenically unsaturated group; wherein the molar fraction of curable compounds comprising at least two (meth)acrylic groups, relative to the total number of moles of curable compounds present in the composition, is at least 0.25.



WO 2013/011272 A1