

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 September 2004 (10.09.2004)

PCT

(10) International Publication Number
WO 2004/076743 A3

- (51) International Patent Classification⁷: **D21H 19/44**, C09D 7/12, D21H 19/56
- (21) International Application Number: PCT/EP2004/001426
- (22) International Filing Date: 16 February 2004 (16.02.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 0304354.4 26 February 2003 (26.02.2003) GB
- (71) Applicant (for all designated States except US): **CIBA SPECIALTY CHEMICALS WATER TREATMENTS LIMITED** [GB/GB]; Cleckheaton Road, Low Moor, Bradford, West Yorkshire BD12 0JZ (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **DUNGWORTH, Howard, Roger** [GB/GB]; 15 Hions Close, Rastrick, Brighouse, West Yorkshire HD6 3EH (GB). **PETTY, David** [GB/GB]; 442 Allerton Road, Allerton, Bradford, West Yorkshire BD15 7DU (GB). **JOKINEN, Olli, Juhani** [FI/FI]; Rajakalliontie 17 B, FIN-02460 Kantvik (FI).
- (74) Common Representative: **CIBA SPECIALTY CHEMICALS WATER TREATMENTS LIMITED**; Patents Department, Cleckheaton Road, Low Moor, Bradford, West Yorkshire BD12 0JZ (GB).
- (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, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, 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, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- (88) Date of publication of the international search report: 13 January 2005
- 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: MODIFICATION OF PAPER COATING RHEOLOGY

(57) Abstract: Thickener compositions for addition to paper coating compositions in order to obtain low high shear viscosity and good water retention. The thickener compositions comprise an associative thickener with an associative content below 10%, a molecular weight below one million and an acid content of at least 10% by weight.

WO 2004/076743 A3