



(43) International Publication Date
20 September 2012 (20.09.2012)

(51) International Patent Classification:

C08L 25/08 (2006.01) *C08F 212/08* (2006.01)
C08L 33/04 (2006.01) *C08F 220/34* (2006.01)
C08L 35/00 (2006.01)

(21) International Application Number:

PCT/US2012/029238

(22) International Filing Date:

15 March 2012 (15.03.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/452,799 15 March 2011 (15.03.2011) US

(71) Applicant (for all designated States except US): **MALLARD CREEK POLYMERS, INC.** [US/US]; 14700 Mallard Creek Road, Charlotte, North Carolina 28262 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **KRISHNAN, Venkataram** [US/US]; 104 Penchant Court, Cary, North Carolina 27513 (US).

(74) Agent: **JENKINS, Mark D.**; Attn: Patent Docketing, P.O. Box 7037, Atlanta, Georgia 30357 (US).

(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, 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).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

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))

(88) Date of publication of the international search report:

27 December 2012



WO 2012/125835 A3

(54) Title: ASSOCIATIVE ACID SWELLABLE THICKENERS

(57) Abstract: Provided is a thickener composition comprising the polymerization product of an aromatic monomer, an amine functional monomer, and a hydrophobic, associative monomer. The thickener composition is capable of thickening various formulations at a pH of 6.0 or less. Also provided are personal care, household, and industrial formulations that include the thickener compositions.

A. CLASSIFICATION OF SUBJECT MATTER*C08L 25/08(2006.01)i, C08L 33/04(2006.01)i, C08L 35/00(2006.01)i, C08F 212/08(2006.01)i, C08F 220/34(2006.01)i*

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C08L 25/08; C08F 220/06; C08K 5/01; C08F 265/04; C08L 33/14; A61K 7/11; C08F 220/04; A61K 7/06; C09D 7/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: polymeric thickener, dimethylaminoethyl methacrylate, acrylic copolymer, styrene, maleic based hydrophobic monomer

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0444791 A1 (ROHM AND HAAS COMPANY) 04 September 1991 See abstract, pages 3-5, 9.	1-20
X	US 4892916 A (HAWE, M. et al.) 09 January 1990 See abstract, columns 4,5,8-10.	1,5-7,11,12,17-20
A	US 4289678 A (CALDER, G. V. et al.) 15 September 1981 See the whole document.	1-20
A	US 6361768 B1 (GALLEGUILLOS, R. et al.) 26 March 2002 See the whole document.	1-20

 Further documents are listed in the continuation of Box C. See patent family annex.

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"&" document member of the same patent family

Date of the actual completion of the international search

19 OCTOBER 2012 (19.10.2012)

Date of mailing of the international search report

19 OCTOBER 2012 (19.10.2012)

Name and mailing address of the ISA/KR

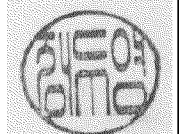
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Authorized officer

Jung Doo Young

Telephone No. 82-42-481-8699



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2012/029238

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