

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

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
1 March 2012 (01.03.2012)

(10) International Publication Number
WO 2012/027510 A1

PCT

(51) International Patent Classification:

C08J 9/00 (2006.01) C08K 7/00 (2006.01)
C08J 9/24 (2006.01)

(21) International Application Number:

PCT/US2011/049022

(22) International Filing Date:

24 August 2011 (24.08.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/376,607	24 August 2010 (24.08.2010)	US
61/392,558	13 October 2010 (13.10.2010)	US
13/181,476	12 July 2011 (12.07.2011)	US

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(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, 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).

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))

(54) Title: CELLULAR FOAM ADDITIVE

(57) Abstract: Highly specialized three-dimensional structural kinetic mixing particles to promote low surface energy regions for bubble and nucleation sites resulting in stronger, lighter weight foam having consistent cellular structures. The foam composition includes particles that continue to remain active as foam constituent fluids move during the foam expansion process. The continued mixing promotes better dispersion of blowing agents as well as increased mobility through better dispersion of reactive and nonreactive additives throughout the polymer during expansion of the foam thereby improving cellular consistency. The addition of kinetic mixing particles will produce similar results in any structural foam material that uses endothermic blowing agents, exothermic blowing agents and/or gas foam injection systems.



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