

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
9 November 2006 (09.11.2006)

PCT

(10) International Publication Number
WO 2006/118807 A1

(51) International Patent Classification:

C08J 3/18 (2006.01) **C08K 5/00** (2006.01)
C08J 3/22 (2006.01)

(21) International Application Number:

PCT/US2006/014869

(22) International Filing Date: 20 April 2006 (20.04.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

11/118,925 29 April 2005 (29.04.2005) US

(71) Applicant (for all designated States except US): **EXXON-MOBIL CHEMICAL PATENTS INC.** [US/US]; A Corporation of the State of Delaware, 5200 Bayway Drive, Baytown, TX 77520-5200 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **COFFEY, James, N.** [US/US]; 2042 Crest Court, League City, TX 77573 (US). **LI, Wen** [CN/US]; 4019 N. Water Iris Court, Houston, TX 77059 (US). **CHAPMAN, Bryan, R.** [US/US]; 11 Maple Avenue, Annandale, NJ 08801 (US). **LUND-MARK, Bruce, R.** [US/US]; 30140 Waller Spring Creek Road, Waller, TX 77484 (US).

(74) Agents: **BELL, Catherine, L.** et al.; Exxonmobil Chemical Company, Law Technology, P.O. Box 2149, Baytown, TX 77522-2149 (US).

(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, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, 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, NA, 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, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, 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
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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: METHOD TO MAKE AN ARTICLE COMPRISING A POLYMER CONCENTRATE

(57) Abstract: This invention relates to a method to make an article comprising the steps of combining a semi-amorphous polymer having a heat of fusion of less than 70 J/g with a plasticizer and optionally one or more additives, to produce a polymer concentrate, combining the polymer concentrate with one or more final materials to produce an article precursor; and forming the article at least partially from the article precursor, wherein the polymer concentrate preferably shows no visible phase separation as demonstrated by the polymer concentrate having no visually detectable loss of the plasticizer after a portion of the polymer concentrate is aged on an absorbent surface for 24 hours at 25°C. An article produced by the method is also disclosed.

WO 2006/118807 A1