

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
2 October 2008 (02.10.2008)

PCT

(10) International Publication Number
WO 2008/118577 A1

(51) International Patent Classification:
C08F 2/00 (2006.01)

(21) International Application Number:
PCT/US2008/054581

(22) International Filing Date:
21 February 2008 (21.02.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/728,324 23 March 2007 (23.03.2007) US

(71) Applicant (for all designated States except US): **EXXON-MOBIL CHEMICAL PATENTS INC.** [US/US]; 5200 Bayway Drive, Baytown, TX 77520-2101 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SHAFFER, Timothy, D.** [US/US]; 99 Russling Road, Hackettstown, NJ 07840 (US). **MCDONALD, Michael, F.** [US/US]; 5634 Spring Lodge, Kingwood, TX 77345 (US). **CHUNG, David, Y.** [US/US]; 8802 Croes Drive, Houston, TX 77055 (US). **WEBB, Robert, N.** [US/US]; 5902 Rapid Creek Court, Kingwood, TX 77345 (US). **DAVIS, Debo-rah, Jean** [US/US]; 7642 Rainbow Bend Drive, Pasadena, TX 77505 (US). **WRIGHT, Pamela, J.** [US/US]; 910 Mecro Road, Easton, PA 18040 (US).

(74) Agents: **KRAWCZYK, Nancy, T.** 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, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, 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, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, 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

(54) Title: METHOD AND APPARATUS FOR DECREASING POLYMER DEPOSITION

(57) Abstract: The disclosure provides a slurry polymerization system and method to decrease polymer deposition on reactor surfaces using an oxygenate such as alcohol (16) supplied to the polymerization medium (32) separate from the catalyst feed (34).

WO 2008/118577 A1