



(43) International Publication Date
28 June 2012 (28.06.2012)

(10) International Publication Number
WO 2012/088028 A1

(51) International Patent Classification:

C07C 69/78 (2006.01) *C08F 4/651* (2006.01)
C08F 4/646 (2006.01) *C08F 110/06* (2006.01)

(21) International Application Number:

PCT/US2011/066013

(22) International Filing Date:

20 December 2011 (20.12.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/425,358 21 December 2010 (21.12.2010) US

(71) Applicant (for all designated States except US): **DOW GLOBAL TECHNOLOGIES LLC** [US/US]; 2040 Dow Center, Midland, MI 48674 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CHEN, Linfeng** [US/US]; 4015 Tuscan Shores Drive, Missouri City, TX 77459 (US). **LEUNG, Tak, W.** [US/US]; 3823 Canary Grass Lane, Houston, TX 77059 (US). **TAO, Tao** [CN/US]; 1721 Potomac Drive C, Houston, TX 77057 (US). **GAO, Kuanqiang** [CN/US]; 3205 Princess Bat Court, Pearland, TX 77584 (US).

(74) Agent: **BARTHEL, Ted, J.**; Whyte Hirschboeck Dudek S.C., 555 East Wells Street, Suite 1900, Milwaukee, WI 53202 (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).

Published:

— with international search report (Art. 21(3))

(54) Title: PROCESS FOR PRODUCTION OF HIGH MELT FLOW PROPYLENE-BASED POLYMER AND PRODUCT FROM SAME

(57) Abstract: Disclosed are catalyst compositions having an internal electron donor which includes a 3,6- di-substituted-1,2-phenylene aromatic diester. Ziegler-Natta catalyst compositions containing the present catalyst compositions exhibit very high hydrogen response, high activity, high selectivity and produce propylene-based olefins with high melt flow rate.



WO 2012/088028 A1