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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
28 September 2006 (28.09.2006)

PCT

(10) International Publication Number
WO 2006/101930 A3

(51) International Patent Classification:
C08F 297/08 (2006.01) *C08F 2/38* (2006.01)
C08F 4/646 (2006.01)

(21) International Application Number:
PCT/US2006/009408

(22) International Filing Date: 15 March 2006 (15.03.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PCT/US2005/008917 17 March 2005 (17.03.2005) US
60/718,198 16 September 2005 (16.09.2005) US

(71) Applicant *(for all designated States except US)*: **DOW GLOBAL TECHNOLOGIES INC.** [US/US]; WASHINGTON STREET, 1790 Buildiong, Midland, Michigan 48674 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **FUCHS, David, Winn** [US/US]; 511 Jackson, Clute, Texas 77531 (US). **JAIN, Pradeep** [US/US]; 103 River Oaks Drive, Lake Jackson, Texas 77566 (US). **DEMIRORS, Mehmet** [—/US]; 2319 Bending Spring Drive, Pearland, Texas 77584 (US). **CHAM, Pak-meng** [US/US]; 315 Juniper, Lake Jackson, Texas 77566 (US). **CHEUNG, Yunwa, Wilson** [US/US]; 104 Rosemary Lane, Lake Jackson, Texas 77566 (US).

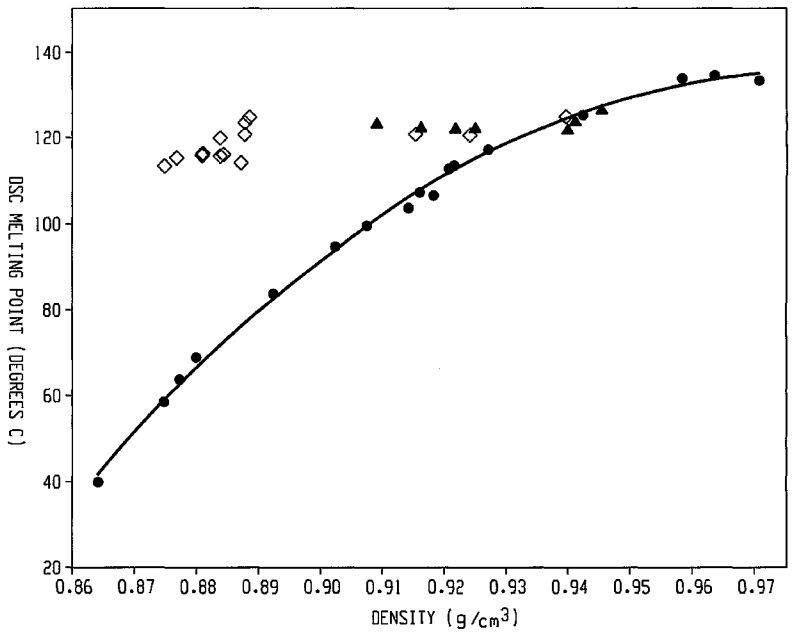
(74) Agents: **BAI, J., Benjamin** et al.; JONES DAY, 717 TEXAS, Suite 3300, Houston, Texas 77002 (US).

(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,

[Continued on next page]

(54) Title: COMPOSITIONS OF ETHYLENE/ALPHA-OLEFIN MULTI-BLOCK INTERPOLYMER SUITABLE FOR FILMS



(57) Abstract: Compositions suitable for film comprise at least one ethylene/α-olefm interpolymer, wherein the ethylene/α-olefin interpolymer may have, for example, a Mw/Mn from about 1.7 to about 3.5, at least one melting point, Tm, in degrees Celsius, and a density, d, in grams/cubic centimeter, wherein the numerical values of Tm and d correspond to the relationship: Tm > -2002.9 + 4538.5(d) - 2422.2(d)2.

WO 2006/101930 A3

RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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*

(88) Date of publication of the international search report:
19 July 2007

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.