

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
14 June 2007 (14.06.2007)

PCT

(10) International Publication Number
WO 2007/067965 A3

(51) International Patent Classification:

C08F 210/16 (2006.01) C07F 7/00 (2006.01)
C08F 4/659 (2006.01)

(21) International Application Number:

PCT/US2006/061761

(22) International Filing Date:

7 December 2006 (07.12.2006)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/749,308 9 December 2005 (09.12.2005) US

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(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, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, 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.

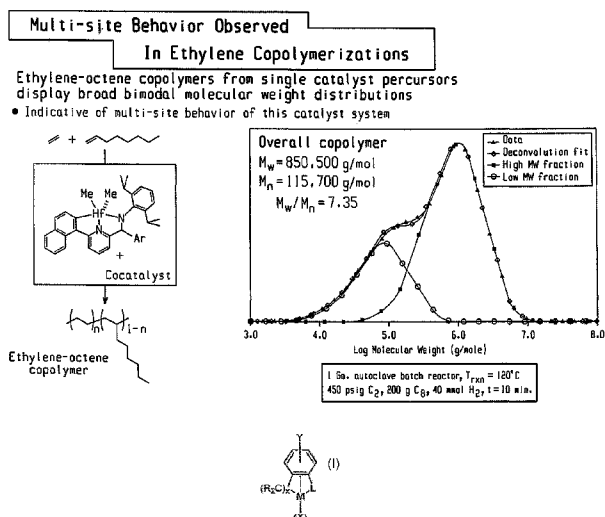
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, 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).

Published:

— with international search report

[Continued on next page]

(54) Title: PROCESSES OF CONTROLLING MOLECULAR WEIGHT DISTRIBUTION IN ETHYLENE/ALPHA-OLEFIN COMPOSITIONS



(57) Abstract: The present invention relates to compositions and processes of making polymers having a controlled molecular weight distribution. The molecular weight distribution is controlled, for example, by controlling the relative monomer concentrations during contact with a pre-catalyst and/or using a catalyst comprising a catalytic amount of a molecule having the structure: wherein M = group 2 - 8 metal, preferably group 4 as a neutral or charged moiety; Y = any substituent including fused rings; L = any ligating group, especially a pyridyl or pyridylamide; X = alkyl, aryl, substituted alkyl, H or hydride, halide, or other anionic moiety; y = an integer from 0 to the complete valence of M; R = alkyl, aryl, haloalkyl, haloaryl, hydrogen, etc; x = 1 - 6, especially 2; Dashed line = optional bond, especially a weak bond; and X and $(\text{CR}_2)_x$ may be tethered or part of a ring.



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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(88) Date of publication of the international search report:

4 October 2007