



(51) International Patent Classification:

B01J 31/22 (2006.01) **B01J 21/12** (2006.01)
B01J 31/14 (2006.01) **C08F 110/02** (2006.01)
B01J 37/02 (2006.01) **C08F 110/06** (2006.01)
B01J 37/08 (2006.01) **C08F 10/00** (2006.01)
B01J 37/24 (2006.01) **C08F 4/02** (2006.01)
B01J 37/26 (2006.01) **C08F 4/659** (2006.01)

(21) International Application Number:

PCT/US2014/045708

(22) International Filing Date:

8 July 2014 (08.07.2014)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

13/941,573 15 July 2013 (15.07.2013) US

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(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, BN, 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, IR, IS, JP, KE, KG, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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, 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, KM, ML, MR, NE, SN, TD, TG).

Published:

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

[Continued on next page]

(54) Title: METHODS FOR PRODUCING FLUORIDED-CHLORIDED SILICA-COATED ALUMINA ACTIVATOR-SUPPORTS AND CATALYST SYSTEMS CONTAINING THE SAME

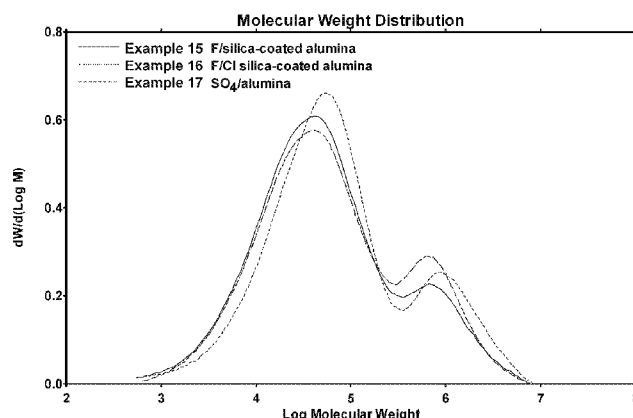


FIG. 1

(57) Abstract: Methods for the preparation of fluorided-chlorided silica-coated alumina activator-supports are disclosed. These comprise (a) calcining a silica-coated alumina at a peak calcining temperature to produce a calcined silica-coated alumina; (b) contacting the calcined silica-coated alumina with a chlorine-containing compound and calcining at a peak chloriding temperature to produce a chlorided silica-coated alumina; and (c) contacting the chlorided silica-coated alumina with a fluorine-containing compound and calcining at a peak fluoriding temperature to produce the fluorided-chlorided silica-coated alumina. These activator-supports can be used in catalyst systems further comprising a metallocene compound and optionally a co-catalyst, for the production of olefin-based polymers, such as polyethylene and polypropylene.



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- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*