

(51) International Patent Classification:
C08F 110/02 (2006.01)(21) International Application Number:
PCT/US2013/026584(22) International Filing Date:
18 February 2013 (18.02.2013)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/606,601 5 March 2012 (05.03.2012) US(71) Applicant: UNIVATION TECHNOLOGIES, LLC
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TECHNOLOGIES, LLC, 5555 San Felipe, Suite 1950,
Houston, TX 77056 (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, 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, 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, PA, 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, 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).

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:

- without international search report and to be republished upon receipt of that report (Rule 48.2(g))

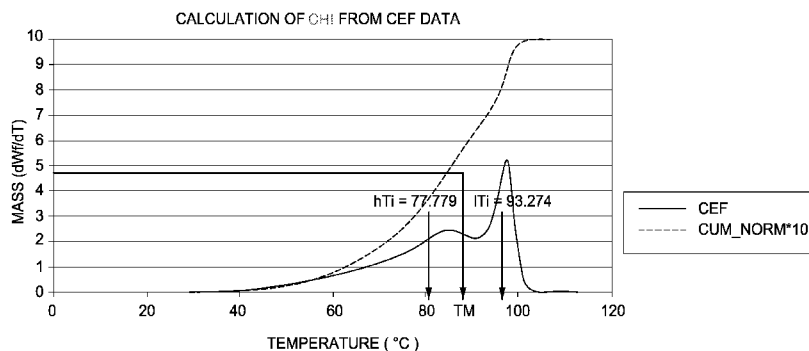
(54) Title: METHODS FOR MAKING CATALYST COMPOSITIONS AND POLYMER PRODUCTS PRODUCED THERE-
FROM

FIG. 1

(57) Abstract: Methods for making olefin polymerization catalysts and methods for making polymers using the catalysts are provided. The method for making the catalyst can include combining one or more supports with one or more magnesium-containing compounds under reaction conditions to form a first reacted product. One or more chlorinating compounds selected from the group consisting of aluminum alkyl chlorides and chloro substituted silanes can be combined with the first reacted product under reaction conditions to form a second reacted product. One or more titanium-containing compounds selected from the group consisting of titanium alkoxides and titanium halides can be combined with the second reacted product under reaction conditions to form a catalyst.

