

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

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
7 January 2010 (07.01.2010)

PCT

(10) International Publication Number
WO 2010/002485 A1

(51) International Patent Classification:
C08F 8/04 (2006.01)

(21) International Application Number:
PCT/US2009/038007

(22) International Filing Date:
24 March 2009 (24.03.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
12/164,824 30 June 2008 (30.06.2008) 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, BR, BW, BY, BZ,
CA, CH, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG,
SK, SL, SM, ST, 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, DK, EE, ES,
FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC,
MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, 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:

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

(54) Title: MANUFACTURE OF LOW VISCOSITY POLY ALPHA-OLEFINS

(57) Abstract: The present invention relates to poly alpha-olefins (PAO 's) which exhibit superior Noack volatility at low pour points. The poly alpha-olefin is prepared from an olefin feed comprised of a blend of octene, decene, and dodecene, the feed comprising at least 10 weight % octene and at least 30 weight% dodecene. The process includes both synthesis and distillation of the olefin and oligomerization olefin. The oligomerized olefin feed yields at least 50% low viscosity PAO having a nominal viscosity at 100° C of about 4 cSt.



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