

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
23 June 2022 (23.06.2022)



(10) International Publication Number
WO 2022/132745 A1

(51) International Patent Classification:

C07C 2/32 (2006.01) B01J 31/00 (2006.01)
C07C 2/34 (2006.01)

(21) International Application Number:

PCT/US2021/063276

(22) International Filing Date:

14 December 2021 (14.12.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/125,783 15 December 2020 (15.12.2020) 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, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN,
KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD,
ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO,

(54) Title: A PROCESS FOR PRODUCING ALPHA-OLEFINS

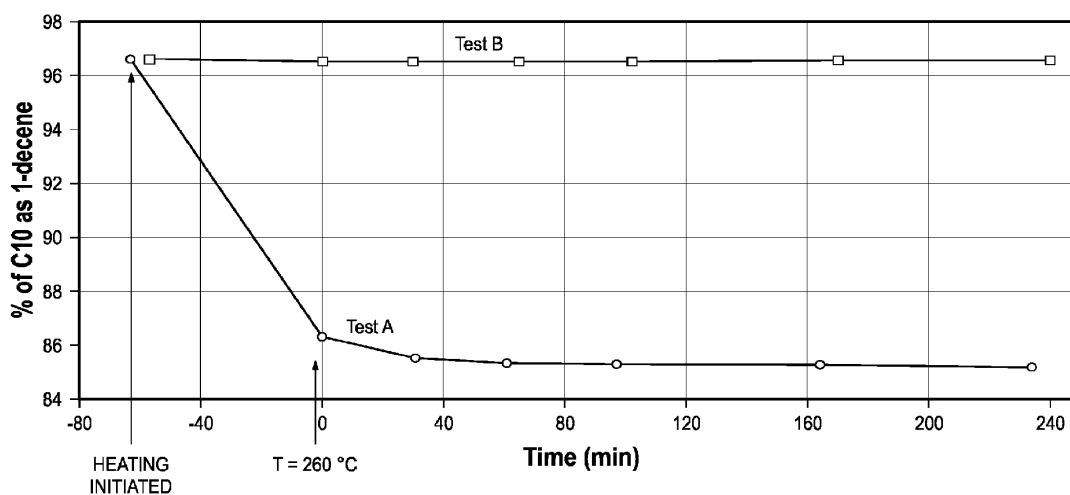


FIG. 1

(57) Abstract: The invention provides a process for producing alpha-olefins comprising: a) contacting an ethylene feed with an oligomerization catalyst system, the catalyst system comprising a metal-ligand catalyst and a co-catalyst, in an oligomerization reaction zone under oligomerization conditions to produce a product stream comprising alpha-olefins; b) withdrawing the product stream from the oligomerization reaction zone wherein the product stream further comprises oligomerization catalyst system; c) contacting the product stream with a catalyst deactivating agent to form a deactivated product stream that contains deactivated catalyst components; and d) heating the deactivated product stream to separate one or more components from the deactivated product stream.

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NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW,
SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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, ST, 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))*
- *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))*