

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
15 February 2007 (15.02.2007)

PCT

(10) International Publication Number
WO 2007/019457 A3

(51) International Patent Classification:
C07C 4/02 (2006.01)

(21) International Application Number:
PCT/US2006/030749

(22) International Filing Date: 7 August 2006 (07.08.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/706,513 8 August 2005 (08.08.2005) US

(71) Applicant (for all designated States except US):
CHEVRON U.S.A. INC. [US/US]; 6001 Bollinger Canyon Road- 3rd Floor, San Ramon, CA 94583 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **O'REAR, Dennis, J.** [US/US]; 49 Upland Drive, Petaluma, CA 94952 (US). **ELOMARI, Saleh, A.** [US/US]; 905 Antiquity Drive, Fairfield, CA 94534 (US). **HARRIS, Thomas, Van** [US/US]; 183 W. Seaview Drive, Benicia, CA 94510 (US). **CHEN, Cong-yan** [US/US]; 740 Wellesley Avenue, Kensington, CA 94708 (US).

(74) Agents: **SHERIDAN, Richard, J.** et al.; Chevron Corporation, Law Department, Post Office Box 6006, San Ramon, CA 94583-0806 (US).

(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, 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, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, 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).

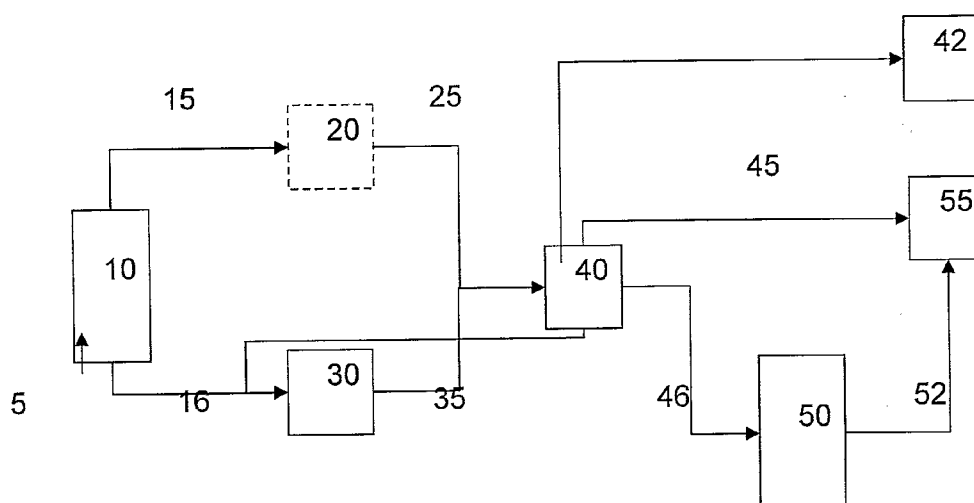
Published:

— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
1 November 2007

[Continued on next page]

(54) Title: CATALYST AND PROCESS FOR SELECTIVE HYDROCONVERSION OF NORMAL PARAFFING TO NORMAL PARAFFIN-RICH LIGHTER PRODUCTS



(57) Abstract: A process and catalyst are suitable for hydroconverting heavy normal paraffins into lighter normal paraffin products with minimal formation of isoparaffins. The process and catalyst can be used on any feed that contains heavy normal paraffins such as waxy lubricant fractions, slack wax or Fischer Tropsch products. By selectively forming a normal paraffin rich product from heavy normal paraffins, the need for normal paraffin separation and purification processes can be reduced or eliminated.

WO 2007/019457 A3



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.