



(51) International Patent Classification:

C07C 2/58 (2006.01) C07C 9/00 (2006.01)
C07C 7/04 (2006.01) C10G 50/00 (2006.01)

(21) International Application Number:

PCT/US2011/046900

(22) International Filing Date:

8 August 2011 (08.08.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

12/975,752 22 December 2010 (22.12.2010) US

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

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HOMMELTOFT, Sven Ivar** [DK/US]; 1708 Milburn Drive, Pleasant Hill, California 94523 (US). **ZHAN, Bi-Zeng** [CA/US]; 545 Pierce Street, # 3301, Albany, California 94706 (US).

(74) Agents: **ABERNATHY, Susan M.** et al.; Chevron Corporation, Law Department, Post Office Box 6006, San Ramon, California 94583-0806 (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, 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, PE, PG, PH, PL, PT, QA, RO, RS, RU, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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).

Published:

- with international search report (Art. 21(3))
- with amended claims (Art. 19(1))

(54) Title: PROCESSES FOR UPGRADING FISCHER-TROPSCH CONDENSATE OLEFINS BY ALKYLATION OF HYDROCRACKATE

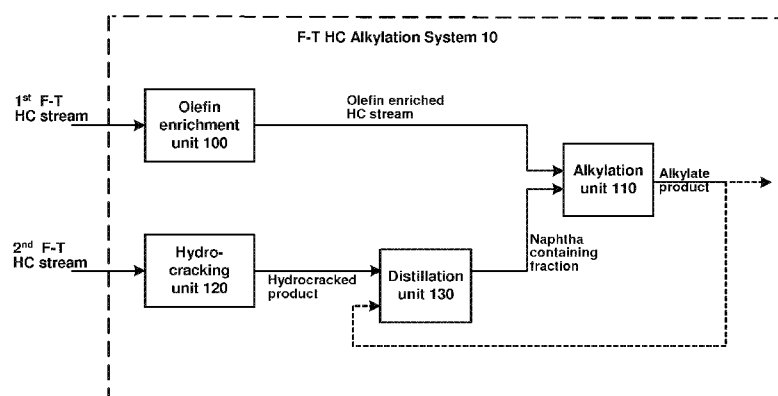


FIG. 1

(57) Abstract: Processes for upgrading Fischer-Tropsch condensate olefins by alkylation of hydrocrackate may involve providing an olefin enriched condensate stream and further providing a Fischer-Tropsch derived hydrocarbon stream comprising wax, hydro-cracking the latter Fischer-Tropsch hydrocarbon stream to provide a distillate enriched hydrocracked product comprising isoparaffins, and alkylating the olefins with the isoparaffins in an alkylation zone to provide an alkylate product. The alkylate product may be fed to a distillation unit together with the hydrocracked product, while a naphtha containing fraction from the distillation unit may be fed to the alkylation zone together with the olefin enriched hydrocarbon stream.