



(51) International Patent Classification:

C10G 3/00 (2006.01) B01J 29/40 (2006.01)
B01J 27/14 (2006.01) C10G 45/10 (2006.01)

(21) International Application Number:

PCT/IB2021/055621

(22) International Filing Date:

24 June 2021 (24.06.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/119,715 01 December 2020 (01.12.2020) US

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

(72) Inventors: **XU, Mingting**; 6001 Bollinger Canyon Road, San Ramon, California 94583 (US). **LIU, Tengfei**; 6001 Bollinger Canyon Road, San Ramon, California 94583 (US). **GROVE, Richard L.**; 6001 Bollinger Canyon Road, San Ramon, California 94583 (US). **MAHOLLAND, Michael K.**; 6001 Bollinger Canyon Road, San Ramon, California 94583 (US).

(74) Agent: **FLAHERTY, Terrence M.** et al.; P.O. Box 6006, San Ramon, California 94583-0806 (US).

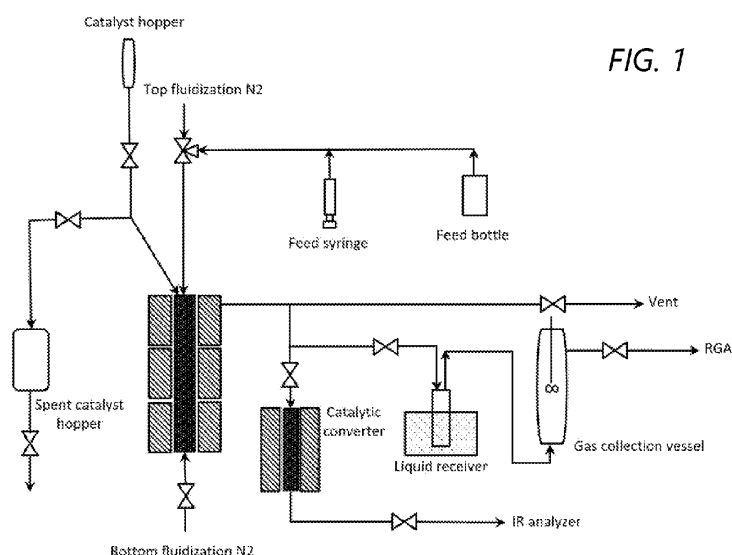
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, 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, 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).

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))

(54) Title: CATALYTIC CRACKING OF GLYCERIDE OILS WITH PHOSPHORUS-CONTAINING ZSM-5 LIGHT OLEFINS ADDITIVES



(57) Abstract: A process is provided for the catalytic cracking of a glyceride oil feedstock with a catalyst composition containing a phosphorus-containing ZSM-5 light olefins additive.

[Continued on next page]

Published:

- with international search report (Art. 21(3))
- in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE