

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
02 March 2023 (02.03.2023)



(10) International Publication Number
WO 2023/026111 A1

(51) International Patent Classification:

C10G 1/00 (2006.01) C10L 1/04 (2006.01)
C10G 1/10 (2006.01) C10G 11/18 (2006.01)
C10G 3/00 (2006.01)

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))

(21) International Application Number:

PCT/IB2022/056693

(22) International Filing Date:

20 July 2022 (20.07.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/236,758 25 August 2021 (25.08.2021) US

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

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

(72) Inventors: **LIU, Tengfei**; 6001 Bollinger Canyon Road, San Ramon, California 94583 (US). **SCHMIDT, Joel Edward**; 6001 Bollinger Canyon Road, San Ramon, California 94583 (US). **GROVE, Richard**; 6001 Bollinger Canyon Road, San Ramon, California 94583 (US). **TIMKEN, Hye-Kyung Cho**; 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, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, 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,

(54) Title: CO-PROCESSING OF WASTE PLASTIC PYROLYSIS OILS AND BIORENEWABLE FEEDSTOCKS

(57) Abstract: A process is provided for producing a liquid hydrocarbon material suitable for use as a fuel or as a blending component in a fuel. The process includes co-processing a pyrolysis oil derived from a waste plastic raw material and a biorenewable feedstock comprising triglycerides in a catalytic cracking process in a presence of a solid catalyst at catalytic cracking conditions to provide a cracking product. The cracking product may be fractionated to provide at least one of a gasoline fraction and a middle distillate fraction.

