

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
25 January 2024 (25.01.2024)



(10) International Publication Number
WO 2024/017593 A1

(51) International Patent Classification:

C10G 1/00 (2006.01) C10G 3/00 (2006.01)
C10G 1/10 (2006.01)

(21) International Application Number:

PCT/EP2023/067794

(22) International Filing Date:

29 June 2023 (29.06.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

PA202200709 22 July 2022 (22.07.2022) DK

(71) Applicant: **TOPSOE A/S** [DK/DK]; Haldor Topsøes Allé
1, 2800 Kgs. Lyngby (DK).

(72) Inventors: **STREBEL, Christian Ejersbo**; Bakkevej 11B,
3460 Birkerød (DK). **GABRIELSEN, Jostein**; Leopardvej
25, 2610 Rødovre (DK). **STUMMANN, Magnus Zingler**;
Strandboulevarden 117, 2.tv., 2100 Copenhagen OE (DK).

(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, MG, MK, MN, MU, 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, CV,
GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, 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 the identity of the inventor (Rule 4.17(i))
- 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))
- of inventorship (Rule 4.17(iv))

Published:

- with international search report (Art. 21(3))

(54) Title: HYDROPROCESSING OF WASTE TYRE PYROLYSIS OIL WITH VEGETABLE AND/OR FATTY MATERIAL

(57) Abstract: Process and plant for producing a hydrocarbon feed comprising: providing a bio-crude oil feed comprising 0.1-5 wt % oxygen (O); providing a vegetable oil and/or fatty material feed; combining the bio-crude oil comprising 0.1-5 wt% O with the vegetable oil and/or fatty material feed, for producing said hydrocarbon feed; wherein said bio-crude oil feed comprising 0.1-5 wt% O is a waste tyre pyrolysis oil feed.



WO 2024/017593 A1