

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
06 February 2025 (06.02.2025)



(10) International Publication Number
WO 2025/026952 A1

(51) International Patent Classification:

C10G 1/00 (2006.01) C10G 47/00 (2006.01)
C10G 1/02 (2006.01) C10L 1/04 (2006.01)
C10G 3/00 (2006.01)

(21) International Application Number:

PCT/EP2024/071385

(22) International Filing Date:

26 July 2024 (26.07.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2311671.8 28 July 2023 (28.07.2023) GB

(71) Applicant: **FIREFLY GREEN FUELS LIMITED**

[GB/GB]; B21 Gloucestershire Science & Technology
Park, Berkeley Gloucestershire GL13 9FB (GB).

(72) Inventors: **LIMA, Sérgio Nuno Martins**; B21 Gloucester-

shire Science & Technology Park, Berkeley Gloucestershire
GL13 9FB (GB). **HILDITCH, Paul Ian**; B21 Gloucester-
shire Science & Technology Park, Berkeley Gloucestershire
GL13 9FB (GB). **HYGATE, James Philip**; B21 Glouces-

tershire Science & Technology Park, Berkeley Gloucester-
shire GL13 9FB (GB).

(74) Agent: **MARKS & CLERK LLP**; Alpha Tower, Suffolk
Street Queensway, Birmingham B1 1TT (GB).

(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,

(54) Title: BIOFUEL PRODUCTION PROCESS

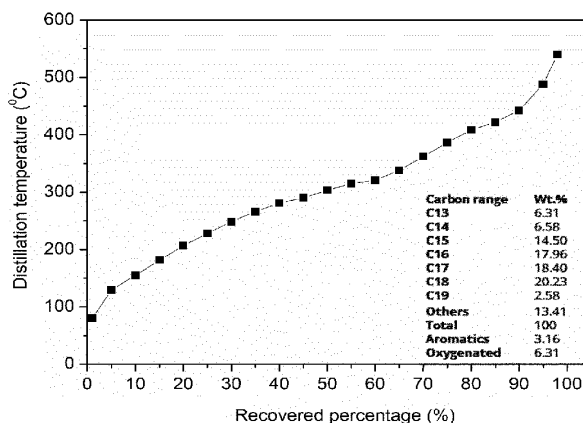


Figure 8

(57) Abstract: The invention relates to a method for producing a biofuel, along with an apparatus for conducting such a method. In particular, the invention relates to a method and apparatus for producing sustainable aviation fuel (SAF).

[Continued on next page]

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).

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*