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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
21 August 2025 (21.08.2025)

WIPO | PCT

(10) International Publication Number
WO 2025/174873 A2

(51) International Patent Classification:
G01N 33/28 (2006.01) *G01N 25/00* (2006.01)

(21) International Application Number:
PCT/US2025/015577

(22) International Filing Date:
12 February 2025 (12.02.2025)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/552,634 12 February 2024 (12.02.2024) US
63/683,614 15 August 2024 (15.08.2024) US

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(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, UY, 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 applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

Published:
— *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*

WO 2025/174873 A2

(54) Title: HIGH TEMPERATURE THERMAL STABILITY ASSESSMENT OF THERMOCHEMICALLY DERIVED OILS

(57) Abstract: Assessing a thermal stability of a thermochemically derived oil (e.g., "untreated" bio-oil) includes heating the thermochemically derived oil to yield a treated thermochemically derived oil and a decomposition gas, combining the treated thermochemically derived oil with a non-polar solvent to yield a mixture, and precipitating a polymeric material from the mixture. The precipitated polymeric material can be separated from the mixture. A mass of the polymeric material and can be assessed. A mass percent of the polymeric material relative to the mass of the thermochemically derived oil before heating (e.g., the "untreated" bio-oil) can be assessed as a measure of the stability of the thermochemically derived oil.