

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
20 April 2023 (20.04.2023)



(10) International Publication Number
WO 2023/062026 A1

(51) International Patent Classification:

A23F 5/16 (2006.01) A23F 5/48 (2006.01)

(21) International Application Number:

PCT/EP2022/078285

(22) International Filing Date:

11 October 2022 (11.10.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2114488.6 11 October 2021 (11.10.2021) GB

(71) Applicant: **REVIVE ECO LTD** [GB/GB]; BioCity Scotland, Bo'Ness Road, Newhouse ML1 5UH (GB).

(72) Inventors: **TAYLOR, Ryan**; BioCity Scotland, Bo'Ness Road, Newhouse ML1 5UH (GB). **THOMPSON, Dawn**; BioCity Scotland, Bo'Ness Road, Newhouse ML1 5UH (GB). **POTTS, Nathan**; BioCity Scotland, Bo'Ness Road, Newhouse ML1 5UH (GB). **KENNEDY, Scott**; BioCity Scotland, Bo'Ness Road, Newhouse ML1 5UH (GB). **MOORE, Fergus**; BioCity Scotland, Bo'Ness Road, Newhouse ML1 5UH (GB).

(74) Agent: **DUFFY, Claudia, Magdalena**; Innovare IP Limited, 95 Camus Avenue, Edinburgh EH10 6QY (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, 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, 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).

(54) Title: EXTRACTION OF COFFEE OIL FROM COFFEE-BASED FEEDSTOCKS BY USING A GREEN AND SCALABLE NEW PROCESS

(57) Abstract: The invention relates to a process of extracting coffee oil from a coffee-based feedstock by using an extraction solvent, wherein a mixture of the coffee-based feedstock and the extraction solvent is kept under mechanical or magnetic agitation for at least 30 minutes and subsequently a liquid phase comprising the extraction solvent is separated and the extraction solvent is removed from the liquid phase, to obtain the coffee oil, wherein the extraction solvent is an ester solvent, and to a coffee oil obtained by said process.

WO 2023/062026 A1