

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
24 June 2021 (24.06.2021)



(10) International Publication Number
WO 2021/123157 A1

(51) International Patent Classification:

A23F 5/24 (2006.01) A23F 3/16 (2006.01)
A23F 5/28 (2006.01) A23F 3/22 (2006.01)
A23F 5/36 (2006.01) A23F 3/26 (2006.01)
A23F 5/50 (2006.01) A23F 5/32 (2006.01)

(21) International Application Number:

PCT/EP2020/087010

(22) International Filing Date:

18 December 2020 (18.12.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

1919001.6 20 December 2019 (20.12.2019) GB

(71) Applicants: **KONINKLIJKE DOUWE EGBERTS B.V.**
[NL/NL]; Vleutensevaart 35, 3532 AD Utrecht (NL).
TECHNISCHE UNIVERSITÄT MÜNCHEN [DE/DE];
Arcisstraße 21, 80333 Munich (DE).

(72) Inventors: **HEIJMAN, Gertjan**; C/O Koninklijke Douwe Egberts B.V., Vleutensevaart 35, 3532 AD Utrecht (NL).
VAN DER WESTEN SKOGVOLD, Rebecca; C/O Koninklijke Douwe Egberts B.V., Vleutensevaart 35, 3532 AD Utrecht (NL). **HOFMANN, Thomas Frank**; C/O Technische Universität München, Lise-Meitner-Straße 34, 85354 Freising (DE). **FRANK, Oliver**; C/O Technische Universität München, Lise-Meitner-Straße 34, 85354 Freising (DE). **GIGL, Michael Josef**; C/O Technische Universität München, Lise-Meitner-Straße 34, 85354 Freising (DE).

(74) Agent: **WILSON GUNN**; Charles House, 148/9 Great Charles Street, Birmingham West Midlands B3 3HT (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, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, 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,

(54) Title: METHOD OF MANUFACTURING BEVERAGE INGREDIENTS

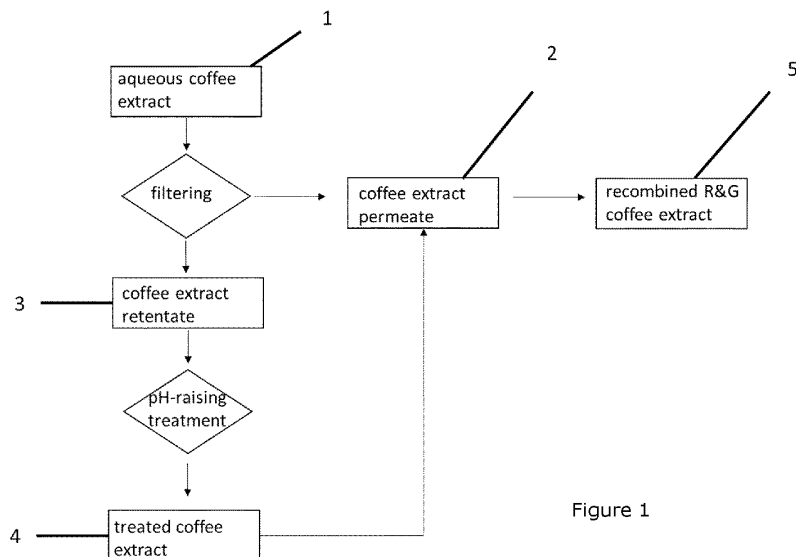


Figure 1

(57) Abstract: The invention provides a method of treating a beverage ingredient extract comprising the steps of: a. filtering a beverage ingredient extract to obtain a beverage ingredient extract retentate and a beverage ingredient extract permeate; b. raising the pH of said beverage ingredient extract retentate to provide a treated beverage ingredient extract retentate; and c. combining said treated beverage ingredient extract retentate with said beverage ingredient extract permeate to generate a recombined ingredient extract.

[Continued on next page]

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, 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))