

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
07 May 2020 (07.05.2020)



(10) International Publication Number
WO 2020/089404 A1

(51) International Patent Classification:
A47J 31/36 (2006.01) A47J 31/44 (2006.01)

(21) International Application Number:
PCT/EP2019/079857

(22) International Filing Date:
31 October 2019 (31.10.2019)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
18203978.4 01 November 2018 (01.11.2018) EP

(71) Applicant: SOCIÉTÉ DES PRODUITS NESTLÉ S.A.
[CH/CH]; Avenue Nestlé 55, 1800 VEVEY (CH).

(72) Inventors: PACAULT, Jean; 6, Rue des Tilleuls, 25300
Granges Narboz (FR). TALON, Christian; Chemin des

Vignes 22C, 1134 Vufflens-le-Château (CH). HEYDEL,
Christophe, Sébastien, Paul; 26, Rue Foulaz, 2025 Chez-
Le-Bart (CH). GRES, Nicolas; 582 Rue du Bourg, 01170
Echenevex (FR).

(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, 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, NZ,
OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA,
SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,

(54) Title: CAPSULE SYSTEM WITH RECOGNITION MEANS AND ADAPTABLE OPENING AND INJECTION MECHANISM

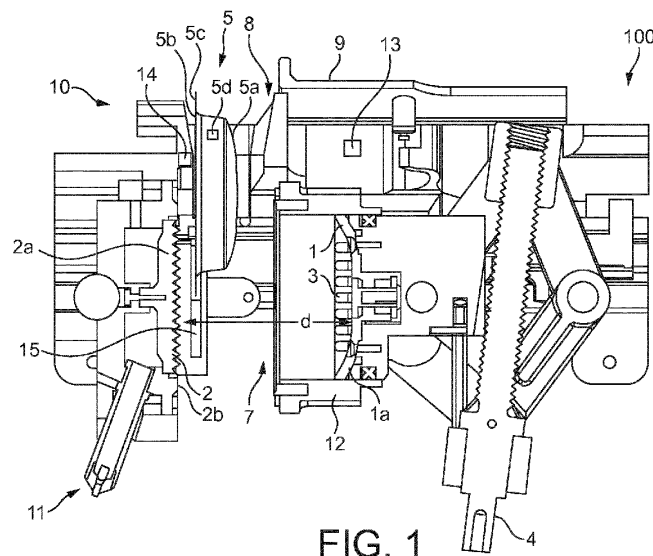


FIG. 1

(57) Abstract: The invention relates to a beverage preparation device (100) for preparing a beverage upon interaction of ingredients provided in a capsule (5) with liquid supplied thereto, the device comprising an injection module (10) comprising a first (1) and a cooperating second enclosing member (2) designed for being moved relatively to each other, the first enclosing member being equipped with capsule opening and injection means (3) for opening a first inlet face (5a) of a capsule (5) and inject liquid into the capsule, the first and second enclosing member (1,2) being designed for being brought into at least a first capsule insertion position for inserting a capsule between the enclosing members (1,2) and a second capsule enclosing position in which the opening and injection means (3) engage the liquid inlet face (5a) of the capsule (5), the device (100) further comprising control means (13) designed for setting at least the capsule enclosing position based on information read from the capsule and/or based on information provided by a user input.

[Continued on next page]

WO 2020/089404 A1

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).

Declarations under Rule 4.17:

- *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))*