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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
02 June 2022 (02.06.2022)

WIPO | PCT

(10) International Publication Number
WO 2022/112320 A1

(51) International Patent Classification:
B65D 85/804 (2006.01)

(21) International Application Number:
PCT/EP2021/082805

(22) International Filing Date:
24 November 2021 (24.11.2021)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
20210284.4 27 November 2020 (27.11.2020) EP

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

(72) Inventors: **RICHARD, Cedric**; Ch. Du Flamy 16, 1041 POLIEZ-PITTET (CH). **GERBAULET, Arnaud**; 24, Rue du chalet, 25160 OYE ET PALLET (FR). **BEHRMANN, Veith**; Route de la Muraz 3, 1844 VILLENEUVE (CH).

(74) Agent: **ROSOLEN-DELARUE, Katell**; Société des Produits Nestlé S.A., Avenue Nestlé 55, 1800 VEVEY (CH).

(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, 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,

WO 2022/112320 A1

(54) Title: CAPSULE AND MANUFACTURING PROCESS FOR PRODUCING SAID CAPSULE

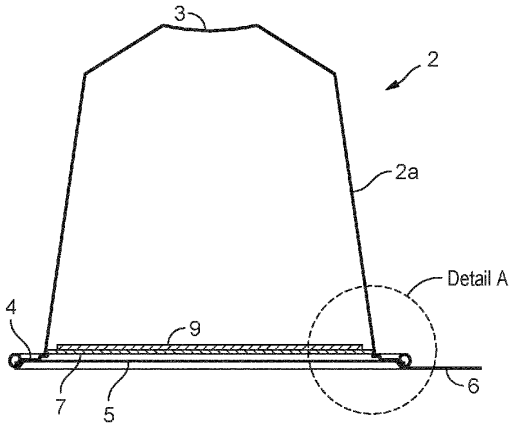


FIG. 2A

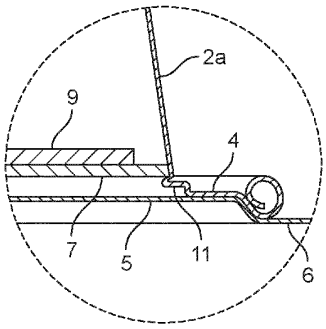


FIG. 2B

(57) Abstract: The invention related to a capsule for preparing a beverage comprising - a substantially rigid capsule body having a circumferential sidewall extending around an inner space of the capsule, said inner space being at least partially filled with a beverage ingredient suitable for preparing the beverage, - a base wall covering the inner space at a first end of the sidewall, - a flange arranged circumferentially around an open side of the capsule at a second end of the sidewall of the base body opposite the base wall, - a lid covering the inner space and the open side of the capsule at the second end of the sidewall opposite the base wall and tightly closing the capsule, the lid being removably attached to the flange of the capsule, - a filter element positioned in the inner space of the capsule between the beverage ingredient and the lid; and - a carrier disk provided in the inner space of the capsule between the lid and the filter, said carrier disk comprising multiple preformed outlet openings suitable for draining the prepared beverage from the inner space outside of the capsule when the capsule is used in the beverage preparation device. According to the invention, the capsule comprises at least one mechanical deformation at the junction or in the vicinity of the junction of the flange and side wall of the capsule, said mechanical deformation retaining the carrier disk inside the inner space of the capsule. The invention also relates to a manufacturing method for manufacturing said capsule and to the use of said capsule.

[Continued on next page]

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))*