

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
19 July 2007 (19.07.2007)

PCT

(10) International Publication Number
WO 2007/080150 A1

(51) International Patent Classification:

B67D 1/00 (2006.01) **B67D 1/12** (2006.01)
B67D 1/07 (2006.01) **B01F 5/04** (2006.01)
B67D 1/10 (2006.01)

(21) International Application Number:

PCT/EP2007/050105

(22) International Filing Date: 5 January 2007 (05.01.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

06000320.9 9 January 2006 (09.01.2006) EP

(71) Applicant (for all designated States except US): **NESTEC S.A.** [CH/CH]; Avenue Nestlé 55, CH-1800 Vevey (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KLOPFENSTEIN, André** [CH/CH]; Chemin de Rondans 37a, CH-2520 La Neuveville (CH). **MOCK, Elmar** [CH/CH]; Rue Haute 23,

CH-2013 Colombier (CH). **RUSCH, Christoph** [CH/CH]; Alpenstrasse 59, CH-2502 Biel (CH). **BITMEAD, Naomi** [AU/CH]; Brüggbühlstrasse 101, CH-3172 Niederwangen b. Bern (CH).

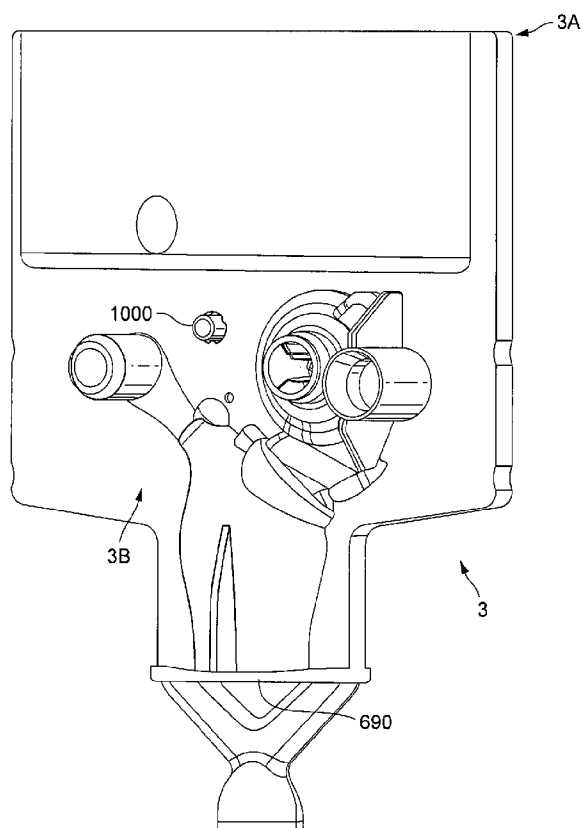
(74) Agent: **BORNE, Patrice**; Ave Nestlé 55, CH-1800 Vevey (CH).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, 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, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: DEVICE FOR DISPENSING A BEVERAGE WITH A CONTROLLED AIR INLET, AND METHOD THEREOF



(57) Abstract: A device (3) for metering a base liquid and mixing this base liquid with a diluent to prepare a food product, has means for connecting it with a container (4) containing the base liquid, the device (3) comprising: - a diluent inlet (71), - a mixing chamber (80) for mixing the base liquid with the diluent. Air inlet means are provided for selectively having ambient air enter the device and guiding it to the container (4). Control means are provided for selectively metering the base liquid into the mixing chamber and for selectively enabling an air flow through the air inlet means only during periods when no base liquid is metered into the mixing chamber.



FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT,
RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, 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*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.