



(51) International Patent Classification:
B65B 39/08 (2006.01)

(21) International Application Number:
PCT/SE2009/050839

(22) International Filing Date:
30 June 2009 (30.06.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0801566-1 2 July 2008 (02.07.2008) SE

(71) Applicant (for all designated States except US): **Ecolean Research & Development A/S** [DK/DK]; Dampfaergevej 3, 2nd floor, DK-2100 Copenhagen (DK).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **GUSTAFSSON, Per** [SE/SE]; N Villavägen 21B, S-237 34 Bjärred (SE).

(74) Agent: **AWAPATENT AB**; Åkesson, Jan-Åke, Box 1066, S-251 10 Helsingborg (SE).

(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, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, 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, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, 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, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- with amended claims (Art. 19(1))

(54) Title: SYSTEM AND METHOD FOR FILLING OF CONTAINERS OF COLLAPSIBLE TYPE

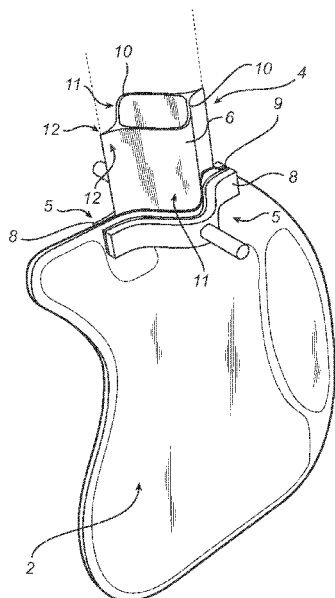


Fig. 3

(57) Abstract: A system and a method for filling a package (2) of the collapsible type with a product in the form of a powder or liquid. The system comprises a package (2), which has a chamber defined by flexible walls, and an arrangement (1) for filling a package (2) of the collapsible type with a product in the form of a powder or liquid. Moreover, the arrangement comprises a filling tube (4) with an end portion (6) which is made of a stiff material and which has an outer circumference (C2), and which end portion (6), in order to transfer said product to the chamber, can be inserted into a filling channel (3) of the package (2), which filling channel (3) has an inner circumference (C1), and a clamping element (5) which is designed to grip the end portion (6) and the filling channel (3) when said end portion (6) is inserted into said filling channel (3), so as to create a seal between the end portion (6) and the filling channel (3). The system is characterized in that the difference between the inner circumference (C1) of the filling channel (3) and the outer circumference (C2) of the end portion (6) is less than or equal to four times a wall thickness of the package walls, such that the ability of the filling channel (3) to form folds when gripped by means of the clamping element (5) is eliminated.