



(51) International Patent Classification:

B65B 3/00 (2006.01) B65B 51/22 (2006.01)
B65B 3/04 (2006.01) B65B 57/04 (2006.01)
B65B 3/12 (2006.01) B65B 61/06 (2006.01)
B65B 39/00 (2006.01) B65B 65/00 (2006.01)
B65B 51/14 (2006.01) G01N 1/14 (2006.01)
B65B 55/12 (2006.01) B29C 65/00 (2006.01)

(21) International Application Number:

PCT/US2021/064487

(22) International Filing Date:

21 December 2021 (21.12.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/130,979 28 December 2020 (28.12.2020) US

(71) Applicants: **BAXTER INTERNATIONAL INC.**

[US/US]; One Baxter Parkway, Deerfield, IL 60015 (US).
BAXTER HEALTHCARE SA [CH/CH]; Thurgauer-
strasse 130, 8152 Glattpark (Opfikon) (CH).

(72) Inventors: **MALHOTRA, Atul**; 1175 Museum Boulevard,

505, Vernon Hills, IL 60061 (US). **DI STEFANI, Gianni**;
Rue De La Haute Foriere 108, 7800 Ath (BE).

(74) Agent: **HUNT, Conor S.**; Marshall, Gerstein & Borun

LLP, 233 S. Wacker Drive, 6300 Willis Tower, Chicago,
Illinois 60606-6357 (US).

(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,

(54) Title: METHOD AND SYSTEM FOR PRODUCING STERILE SOLUTION FILLED CONTAINERS

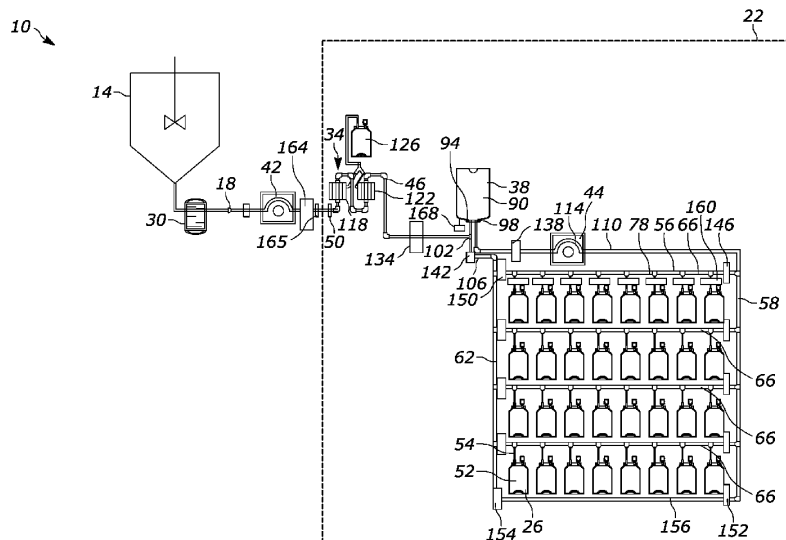


FIG. 1

(57) **Abstract:** A method for producing sterile solution-filled containers includes positioning a cartridge onto a filling machine. The cartridge includes a plurality of containers (26), a filter assembly (34), and a connection line 46 in fluid communication with the filter assembly. Each of the plurality of containers includes a volume and a stem in fluid communication with the volume and in fluid communication with the connection line. The method includes coupling the cartridge to a feed line in fluid communication with a mix tank, activating a pump coupled to the feed line, and at least partially filling one or more of the volumes associated with the plurality of containers by pumping fluid through the feed line, the filter assembly, and the connection line to create one or more at least partially filled containers. Further, the method includes sealing and separating each of the filled and sealed containers from the connection line.

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, 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))*

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

(88) Date of publication of the international search report:

01 September 2022 (01.09.2022)