

(51) International Patent Classification:
C03B 9/16 (2006.01)I-16145 Genova (IT). **PERRONE, Dalmazio** [IT/IT];
Quarto Superiore 44, I- Asti (IT).(21) International Application Number:
PCT/EP2011/002659(74) Agent: **BLUMBACH ZINNGREBE**; Alexandrastrasse
5, 65187 Wiesbaden (DE).(22) International Filing Date:
30 May 2011 (30.05.2011)

(25) Filing Language: English

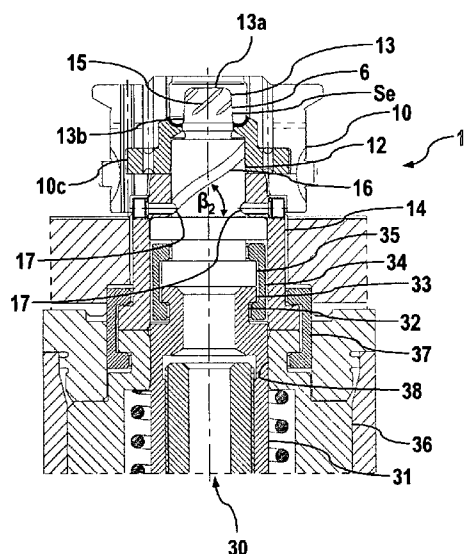
(26) Publication Language: English

(30) Priority Data:
1054201 31 May 2010 (31.05.2010) FR
MI2010A001085 16 June 2010 (16.06.2010) IT(71) Applicant (for all designated States except US):
OWENS-BROCKWAY GLASS CONTAINER INC.
[US/US]; One Michael Owens Way, Perryburg, OH
43551 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **VILLARET DE
CHAUVIGNY, Benoît** [FR/FR]; 71 av. Valioud,
F-69110 Sinte Foy les Lyon (FR). **BRIGNOLO, Gino,**
Giovanni [IT/IT]; Via Andrea Costa N 14 C, I-20090
Trezzano sul Naviglio (IT). **MORETTIN, Ambrogio** [IT/
IT]; Via Friuli, 23, I-30020 Cinto Caomaggiore (IT).
CAMPODONICO, Federico [IT/IT]; Via Nizza 1/4,(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, 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,
GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG,
ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: PROCESS AND EQUIPMENT FOR THE FABRICATION OF GLASS CONTAINERS WITH INTERNALLY
THREADED NECK**FIG. 7a**

(57) Abstract: The present invention relates to a process and equipment for the fabrication of glass containers with internally threaded neck and such containers. The plunger (6) is from the glass leaving an imprint corresponding to the mouth (M) of a bottle, wherein the plunger has at least one helical groove (15) in its outside surface. During the extraction, the plunger is rotated around a longitudinal axis (X-X) performing a roto-translational motion to unscrew the plunger out of the partially solidified glass, leaving an internal thread in the mouth (M) of the bottle. The roto-translational motion for the extraction of the plunger is generated by: a linear actuator (30) acting on the plunger (6), thereby effecting a linear movement of the plunger (6) along said longitudinal axis (X-X), a guide body (14) wherein the plunger (6) is moved relative to the guide body (14) along said longitudinal axis (X-X), and a helical guide (16, 17) coaxial to the longitudinal axis (X-X) and being provided between said guide body (14) and said plunger (6) and transforming said linear movement effected by said linear actuator (30) on said plunger (6) into said roto-translational motion of said plunger (6).



Published:

- *without international search report and to be republished
upon receipt of that report (Rule 48.2(g))*