

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
22 May 2025 (22.05.2025)



(10) International Publication Number
WO 2025/104628 A1

(51) International Patent Classification:

B65B 3/00 (2006.01) **B65B 7/28** (2006.01)
A61L 2/07 (2006.01) **B65B 55/02** (2006.01)

(21) International Application Number:

PCT/IB2024/061314

(22) International Filing Date:

14 November 2024 (14.11.2024)

(25) Filing Language:

Italian

(26) Publication Language:

English

(30) Priority Data:

102023000024198 15 November 2023 (15.11.2023) IT
102024000025443 12 November 2024 (12.11.2024) IT

(71) Applicant: **PHIZERO S.R.L.** [IT/IT]; Piazza XI Febbraio
4/2, 48018 FAENZA (RA) (IT).

(72) Inventors: **MAZZOTTI, Gabriele**; Piazza XI Febbraio
4/2, 48018 FAENZA (RA) (IT). **MAZZOTTI, Pier Paolo**;
Piazza XI Febbraio 4/2, 48018 FAENZA (RA) (IT).

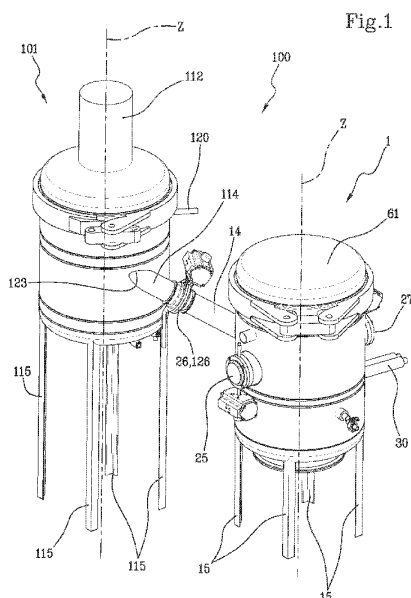
(74) Agent: **FABBRICIANI, Simone**; c/o BUGNION SPA,
VIALE A. GRAMSCI 42, 50132 FIRENZE (IT).

(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, CV, CZ, DE, DJ, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG,
KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY,
MA, MD, MG, MK, MN, MU, 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, CV,
GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, 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).

(54) Title: STEAM STERILIZABLE CONTAINER AND RELATED STERILIZATION METHOD



(57) Abstract: Described is a container (1, 101) which can be sterilised by superheated steam, comprising a process chamber (2, 102) designed to be sterilised by superheated steam using a vaporisation duct (20, 120) and a first compensation chamber (3, 103), at compensated pressure, for housing the instruments (10, 110). The two chambers (2, 102, 3, 103) are hermetically separated by a first partition (4, 104). There are accesses (21, 22, 23, 121, 123) for connecting the process chamber (2, 102) with adjacent zones which are designed to be connected to it; these accesses (21, 22, 23, 121, 123) are adjusted when opening and closing using respective valves (25, 26, 27, 125, 126). There is also a system (100) of two such containers (1, 101), wherein a first container (1) is used for filling and finishing bottles (F), syringes and carpules, process chamber (2), and a second container (101) is used for distributing caps (T) and covers for bottles (F), syringes and carpules, designed to be distributed to the first container (1). In this system (100), the first container (1) and the second container (101) are interconnected with each other by a pipe (14, 114).

WO 2025/104628 A1

[Continued on next page]

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))*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*