

Title (en)

FILLING DEVICE FOR BOTTLES THAT ARE CLOSED IN AN AIR-TIGHT MANNER

Title (de)

BEFÜLL-VORRICHTUNG FÜR LUFTDICHT VERSCHLOSSENE FLASCHEN

Title (fr)

DISPOSITIF DE REMPLISSAGE DESTINÉ À DES BOUTEILLES FERMÉES HERMÉTIQUEMENT

Publication

EP 3755467 B1 20240306 (DE)

Application

EP 19707688 A 20190130

Priority

- DE 102018001411 A 20180222
- DE 2019100096 W 20190130

Abstract (en)

[origin: US2019255546A1] A filling apparatus (110, 210) for a hermetically sealed bottle (200) is created by means of a dual bottle adapter (210), at least indirectly connected to the bottle (200), for an input of liquid from a storage container (100) provided with a dual container adapter (110) and at least partially filled with liquid, wherein between a liquid exit port (111) of the dual container adapter (110) and a liquid entry port (211) of the dual bottle adapter (210) a sealed-off liquid communication connection is present, and between a gas entry port (112) of the dual container adapter (110) and a gas exit port (212) of the dual bottle adapter (210) a sealed-off gas communication connection is present.

IPC 8 full level

B05B 11/00 (2023.01); **B67D 7/02** (2010.01); **B67D 7/72** (2010.01)

CPC (source: EP KR US)

B05B 9/0426 (2013.01 - KR US); **B05B 11/0056** (2013.01 - EP KR US); **B05B 11/0097** (2013.01 - EP KR US);
B67D 7/0205 (2013.01 - EP KR US); **B67D 7/72** (2013.01 - EP KR US)

Citation (examination)

US 4877065 A 19891031 - LAMBOY PETER [DE], et al

Designated contracting state (EPC)

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DOCDB simple family (publication)

DE 202018106573 U1 20181207; CN 111886078 A 20201103; CN 111886078 B 20221104; DE 102018129172 A1 20190822;
DE 102018129172 B4 20210128; DE 112019000936 A5 20201119; EP 3755467 A1 20201230; EP 3755467 B1 20240306;
EP 3755467 C0 20240306; JP 2021514335 A 20210610; JP 7224363 B2 20230217; KR 102499504 B1 20230215; KR 20200123805 A 20201030;
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DOCDB simple family (application)

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US 201916274630 A 20190213