

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 A1 20201230 (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 (2006.01)

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)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

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;
US 10710107 B2 20200714; US 2019255546 A1 20190822; WO 2019161834 A1 20190829; WO 2019161834 A4 20191017

DOCDB simple family (application)

DE 202018106573 U 20181120; CN 201980014267 A 20190130; DE 102018129172 A 20181120; DE 112019000936 T 20190130;
DE 2019100096 W 20190130; EP 19707688 A 20190130; JP 2020544824 A 20190130; KR 20207027141 A 20190130;
US 201916274630 A 20190213