

Title (en)

BUNG PLUG CLOSURE WITH VALVE MECHANISM FOR BUNG CONTAINER

Title (de)

SPUNDSTOPFENVERSCHLUSS MIT VENTILEINRICHTUNG FÜR SPUNDBEHÄLTER

Title (fr)

FERMETURE À BOUCHON DE BONDE POURVUE D'UN ENSEMBLE SOUPAPE POUR CONTENANTS À BONDE

Publication

EP 3752431 A1 20201223 (DE)

Application

EP 19700370 A 20190110

Priority

- DE 102018103137 A 20180213
- EP 2019050521 W 20190110

Abstract (en)

[origin: CA3090603A1] A bung plug closure for bung-hole containers includes a bung plug for placing in a neck of the container with a seal cap for closing a recess formed in the plug. The plug has key projections on an interior wall of the plug recess. Inner surfaces of the projections define a receiving space. Matching locking elements are provided in the plug recess. A valve is disposed in a bottom of the plug recess. The valve body is disposed in a valve opening of a bottom recess and is provided with a valve cover connected to the plug. The cover is an elastically deformable disk, with a diameter d smaller than a diameter D of the receiving space. The cover is connected to the plug with the circumferential edge of the cover received between the locking protrusion of the engaging body and a recess edge of the bottom recess.

IPC 8 full level

B65D 39/08 (2006.01); **B65D 51/16** (2006.01)

CPC (source: EP IL KR RU US)

B65D 39/08 (2013.01 - IL RU); **B65D 39/086** (2013.01 - EP IL KR US); **B65D 51/1644** (2013.01 - EP IL KR US);
B65D 2205/00 (2013.01 - IL 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 102018103137 B3 20181108; AR 114108 A1 20200722; AU 2019221337 A1 20200730; AU 2019221337 B2 20210506;
BR 112020014765 A2 20201208; CA 3090603 A1 20190822; CA 3090603 C 20221129; CL 2020001921 A1 20201009;
CN 111712439 A 20200925; CN 111712439 B 20220405; CO 2020008734 A2 20201030; DK 3752431 T3 20220523; EP 3752431 A1 20201223;
EP 3752431 B1 20220330; ES 2914817 T3 20220616; HU E059404 T2 20221128; IL 276391 A 20200930; IL 276391 B 20211201;
JP 2021512821 A 20210520; JP 6990779 B2 20220112; KR 102466285 B1 20221110; KR 20200099589 A 20200824; MA 51816 A 20210519;
MA 51816 B1 20220531; MX 2020007593 A 20200903; PH 12020551247 A1 20210517; PL 3752431 T3 20230102; RU 2750930 C1 20210706;
SA 520412626 B1 20221110; SG 11202007229X A 20200828; TW 201936454 A 20190916; TW I719404 B 20210221; UA 126604 C2 20221102;
US 11352174 B2 20220607; US 2020391908 A1 20201217; WO 2019158283 A1 20190822; ZA 202004871 B 20220629

DOCDB simple family (application)

DE 102018103137 A 20180213; AR P190100356 A 20190213; AU 2019221337 A 20190110; BR 112020014765 A 20190110;
CA 3090603 A 20190110; CL 2020001921 A 20200722; CN 201980013068 A 20190110; CO 2020008734 A 20200715;
DK 19700370 T 20190110; EP 19700370 A 20190110; EP 2019050521 W 20190110; ES 19700370 T 20190110; HU E19700370 A 20190110;
IL 27639120 A 20200729; JP 2020542409 A 20190110; KR 20207021301 A 20190110; MA 51816 A 20190110; MX 2020007593 A 20190110;
PH 12020551247 A 20200813; PL 19700370 T 20190110; RU 2020128909 A 20190110; SA 520412626 A 20200812;
SG 11202007229X A 20190110; TW 108104607 A 20190212; UA A202005358 A 20190110; US 201916968348 A 20190110;
ZA 202004871 A 20200805