

Title (en)
CLOSURE UNIT CONSISTING OF COVER AND VESSEL, CLOSURE COVER AND CLOSING METHOD

Title (de)
VERSCHLUSSEINHEIT AUS DECKEL UND GEFÄSS, PT VERSCHLUSSDECKEL UND VERFAHREN ZUM VERSCHLIESSEN

Title (fr)
ENSEMBLE DE BOUCHAGE COMPOSÉ D'UN COUVERCLE ET D'UN RÉCIPIENT, COUVERCLE DE BOUCHAGE PT ET PROCÉDÉ DE BOUCHAGE

Publication
EP 3016873 B1 20210407 (DE)

Application
EP 14739947 A 20140701

Priority

- DE 102013106957 A 20130702
- DE 102013112891 A 20131121
- DE 102014102306 A 20140221
- DE 102014104344 A 20140327
- IB 2014062768 W 20140701

Abstract (en)
[origin: CA2917171A1] What is proposed is a closure unit consisting of a glass container (50) with external, circumferentially offset threaded elements (54, 55) on a container neck (52) of the glass container, and a closure cover made of sheet metal, wherein the closure cover (1, 2) has an encircling plastics layer (30; 30h, 30v) on the inside of the cover. The closure cover is pressed onto the container neck (52) and can be opened with a rotational movement via the threaded elements (54, 55) and a vertical section (30v) of the plastics layer. The container neck (52) has a horizontal end surface (52a) on which a horizontal section (30h) of the plastics layer rests under pressure in a sealing manner. A central region (11) of the closure cover passes with an adjoining, circumferentially oriented transition zone (11a, 11b, 11c) into an axially downwardly projecting skirt section (12) which ends in a roll-up region (21a, 21; 22). The plastics layer (30; 30h, 30v) is arranged on the inside of the cover in a manner adhering to the transition zone (11a, 11b, 11c) and the skirt section (12). An axial extent (h0) of the skirt section (12) and a radial dimension (b52) of the horizontally oriented end surface (52a) of the container neck (52) form a first ratio (v1) which is smaller than three.

IPC 8 full level
B65D 41/17 (2006.01); **B65D 41/04** (2006.01)

CPC (source: EP RU US)
B65B 7/285 (2013.01 - US); **B65D 1/023** (2013.01 - EP RU US); **B65D 1/0246** (2013.01 - EP RU US); **B65D 41/0457** (2013.01 - EP US); **B65D 41/17** (2013.01 - EP RU US); **B65D 43/0231** (2013.01 - EP); **B65D 2543/00092** (2013.01 - EP); **B65D 2543/00277** (2013.01 - EP); **B65D 2543/00527** (2013.01 - EP); **B65D 2543/00972** (2013.01 - EP)

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

DOCDB simple family (publication)
DE 102014102306 A1 20150108; DE 102014102306 B4 20150312; AU 2014285780 A1 20160218; AU 2014285780 B2 20180809; AU 2014285786 A1 20160218; AU 2014285786 B2 20180510; AU 2018211222 A1 20180816; AU 2018211222 B2 20200514; BR 112015032891 A2 20170725; BR 112015032891 B1 20220104; BR 112015033017 A2 20170725; BR 112015033017 A8 20191231; BR 112015033017 B1 20220111; CA 2917171 A1 20150108; CN 105431354 A 20160323; CN 105431354 B 20190101; CN 105531195 A 20160427; CN 105531195 B 20190809; EP 3016873 A1 20160511; EP 3016873 B1 20210407; EP 3016874 A1 20160511; EP 3016874 B1 20180307; EP 3401230 A1 20181114; EP 3896000 A1 20211020; ES 2668979 T3 20180523; ES 2875056 T3 20211108; HK 1217474 A1 20170113; HK 1219711 A1 20170413; HU E054833 T2 20210928; LT 3016873 T 20210726; MX 2015017337 A 20160819; MX 2015017340 A 20160819; NZ 715466 A 20170825; NZ 734577 A 20180629; PL 3016873 T3 20210927; PL 3016874 T3 20180831; RU 2015154052 A 20170803; RU 2015154052 A3 20180322; RU 2015154053 A 20170807; RU 2015154053 A3 20180425; RU 2686946 C2 20190506; RU 2708757 C2 20191211; US 10538363 B2 20200121; US 10633149 B2 20200428; US 11643254 B2 20230509; US 2017050771 A1 20170223; US 2017113847 A1 20170427; US 2020223596 A1 20200716; WO 2015001479 A1 20150108; WO 2015001485 A1 20150108; ZA 201509238 B 20170927

DOCDB simple family (application)
DE 102014102306 A 20140221; AU 2014285780 A 20140701; AU 2014285786 A 20140701; AU 2018211222 A 20180731; BR 112015032891 A 20140701; BR 112015033017 A 20140701; CA 2917171 A 20140701; CN 201480038088 A 20140701; CN 201480048466 A 20140701; EP 14739947 A 20140701; EP 14744378 A 20140701; EP 18160357 A 20140701; EP 21167083 A 20140701; ES 14739947 T 20140701; ES 14744378 T 20140701; HK 16105448 A 20160512; HK 16107673 A 20160701; HU E14739947 A 20140701; IB 2014062759 W 20140701; IB 2014062768 W 20140701; LT 14739947 T 20140701; MX 2015017337 A 20140701; MX 2015017340 A 20140701; NZ 71546614 A 20140701; NZ 73457714 A 20140701; PL 14739947 T 20140701; PL 14744378 T 20140701; RU 2015154052 A 20140701; RU 2015154053 A 20140701; US 201414902143 A 20140701; US 201414902470 A 20140701; US 202016746385 A 20200117; ZA 201509238 A 20151218