

Title (en)

PLASTIC CLOSING DEVICE WITH A PIERCING ELEMENT

Title (de)

VERSCHLIESSVORRICHTUNG AUS KUNSTSTOFF MIT DURCHSTOSSER

Title (fr)

DISPOSITIF DE FERMETURE EN PLASTIQUE DOTE D'UN PERFORATEUR

Publication

**EP 1322523 B1 20081126 (DE)**

Application

**EP 01966937 A 20010927**

Priority

- CH 0100582 W 20010927
- CH 19392000 A 20001003
- CH 21812000 A 20001109

Abstract (en)

[origin: WO0228728A1] The invention relates to a closing device (1) for a container (B) that comprises a bung-type lower part (2) with a cylindrical pour spout (20). The cylindrical pour spout has a female thread in which a cylindrical piercing element (3) that is open to both sides and that is provided with a male thread is retained by a screw connection. A screw cap (4) can be placed on the lower part, said screw cap being provided with driver means (44, 45) that interact with driver means (34) in the piercing element (3). A fine-pitch thread is provided between the screw cap (4) and the lower part and a coarse-pitch thread between the lower part and the piercing element. The combined screw/translational motion of the piercing element and the selected threads produce a highly effective cutting motion.

IPC 8 full level

**B65D 5/74** (2006.01); **B67D 99/00** (2010.01); **B65D 47/36** (2006.01); **B65D 51/22** (2006.01)

CPC (source: EP US)

**B65D 5/748** (2013.01 - EP US)

Cited by

US11878903B2; US10676261B2; US11718457B2; US11390516B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**WO 0228728 A1 20020411**; AT E415351 T1 20081215; AU 8747901 A 20020415; CA 2424538 A1 20030402; DE 50114527 D1 20090108; EP 1322523 A1 20030702; EP 1322523 B1 20081126; JP 2004509816 A 20040402; US 2004104245 A1 20040603; US 2006144852 A1 20060706; US 7036683 B2 20060502

DOCDB simple family (application)

**CH 0100582 W 20010927**; AT 01966937 T 20010927; AU 8747901 A 20010927; CA 2424538 A 20010927; DE 50114527 T 20010927; EP 01966937 A 20010927; JP 2002532126 A 20010927; US 32956106 A 20060110; US 39810803 A 20030401