

Title (en)
LOCKING DEVICE FOR A CAP

Title (de)
VERRIEGELUNGSVORRICHTUNG FÜR EINE KAPPE

Title (fr)
DISPOSITIF DE VERROUILLAGE DE BOUCHON

Publication
EP 2814752 A1 20141224 (FR)

Application
EP 13702806 A 20130206

Priority
• FR 1251306 A 20120213
• EP 2013052273 W 20130206

Abstract (en)
[origin: WO2013120739A1] A locking device (1) for locking a cap (100) on a container (101) with a flange (102), comprising a lid (2) housing a bushing (4) provided with lower inner notches (42) supported under said flange (102) and outer notches (44) engaging with a groove (22) in the lid (2) to secure said bushing (4) to said lid (2), said lid (2) comprising a severable frangible zone (ZI), said bushing (4) being formed by a ring extended by lugs (41) intended to surround said cap (100) and provided with at least one deformable and severable bridge (45) provided opposite said lugs (41) and capable of being elastically deformed radially to allow the forced insertion of said flange (102) into said bushing (4) and of being broken to allow the removal of said bushing (4) relative to said flange (102) followed by the removal of said cap (100) from said container (101).

IPC 8 full level
B65D 41/48 (2006.01); **A61J 1/14** (2006.01); **B65D 51/00** (2006.01)

CPC (source: EP US)
A61J 1/2096 (2013.01 - EP US); **B65D 41/48** (2013.01 - EP US); **B65D 51/002** (2013.01 - EP US); **B65D 51/18** (2013.01 - EP);
A61J 1/1418 (2015.05 - EP US); **A61J 1/201** (2015.05 - EP US); **B65D 2251/0015** (2013.01 - EP US); **B65D 2251/0075** (2013.01 - EP US);
B65D 2401/35 (2020.05 - EP)

Citation (search report)
See references of WO 2013120739A1

Cited by
EP4389634A1; FR3144116A1; EP3763635A1; FR3098505A1; US11738915B2; US11535429B2

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)
FR 2986782 A1 20130816; FR 2986782 B1 20140307; AU 2013220588 A1 20140821; AU 2013220588 B2 20150611;
BR 112014019552 A2 20170627; BR 112014019552 B1 20210119; CA 2856894 A1 20130822; CA 2856894 C 20160426;
CN 104245528 A 20141224; CN 104245528 B 20160420; EP 2814752 A1 20141224; EP 2814752 B1 20160413; ES 2582178 T3 20160909;
HK 1200419 A1 20150807; IL 233593 A0 20140831; IL 233593 B 20180628; JP 2015509893 A 20150402; JP 5932061 B2 20160608;
KR 101578685 B1 20151218; KR 20140116145 A 20141001; MX 2014009127 A 20140911; MX 347990 B 20170519;
NZ 627609 A 20160331; RU 2014131760 A 20160220; RU 2576234 C2 20160227; US 2015014316 A1 20150115; US 9382044 B2 20160705;
WO 2013120739 A1 20130822; ZA 201405002 B 20181219

DOCDB simple family (application)
FR 1251306 A 20120213; AU 2013220588 A 20130206; BR 112014019552 A 20130206; CA 2856894 A 20130206;
CN 201380007545 A 20130206; EP 13702806 A 20130206; EP 2013052273 W 20130206; ES 13702806 T 20130206; HK 15100699 A 20150122;
IL 23359314 A 20140710; JP 2014556026 A 20130206; KR 20147020667 A 20130206; MX 2014009127 A 20130206; NZ 62760913 A 20130206;
RU 2014131760 A 20130206; US 201314375372 A 20130206; ZA 201405002 A 20140709