

Title (en)
FILLABLE CLOSURE FOR TRIGGERING THE EMPTYING OF A CAPSULE

Title (de)
BEFÜLLBARER VERSCHLUSS ZUM AUSLÖSEN DER ENTLEERUNG EINER KAPSEL

Title (fr)
DISPOSITIF DE FERMETURE REMPLISSABLE PERMETTANT DE DECLANCHER LE VIDAGE D'UNE CAPSULE

Publication
EP 2723650 B1 20160615 (DE)

Application
EP 12730819 A 20120601

Priority
• EP 11170835 A 20110621
• EP 2012060436 W 20120601
• EP 12730819 A 20120601

Abstract (en)
[origin: WO2012175317A1] The fillable closure is used to trigger the emptying of a capsule (2) that belongs to said closure and can be inserted in the closure and filled separately. The closure consists of a closing cap (1) which can be screwed or snapped on the neck (40) of a container and in which a separately fillable capsule (2) can be inserted in the closed state from beneath. The region above the inserted capsule (2) on the closing cap (1) forms a push button (4) having a central pusher surface (6). A downwardly projecting protuberance (9) is molded on the lower face. Said protuberance (9) abuts against the upper face of the inserted capsule (2). Using pressure from above, the push button (4) can be pressed such as to deform the initially convex shape as seen from above into a concave shape, the protuberance (9) pushing the upper face (13) of the capsule (2) and the content thereof downward. The film (15), which forms the lower face of the capsule (2), is thus placed under tensile stress such that it breaks or bursts along weakened lines.

IPC 8 full level
B65D 51/28 (2006.01)

CPC (source: EP US)
B65D 25/04 (2013.01 - US); **B65D 51/2821** (2013.01 - EP 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

DOCDB simple family (publication)
WO 2012175317 A1 20121227; BR 112013032495 A2 20170221; BR 112013032495 A8 20180703; CA 2839370 A1 20121227; CN 103842263 A 20140604; CN 103842263 B 20150902; EA 028841 B1 20180131; EA 201301309 A1 20141230; EP 2723650 A1 20140430; EP 2723650 B1 20160615; HK 1197665 A1 20150206; JP 2014530792 A 20141120; JP 6041108 B2 20161214; MX 2013015236 A 20141017; MX 345491 B 20170201; US 2014117020 A1 20140501; US 9650174 B2 20170516; ZA 201308983 B 20140730

DOCDB simple family (application)
EP 2012060436 W 20120601; BR 112013032495 A 20120601; CA 2839370 A 20120601; CN 201280030616 A 20120601; EA 201301309 A 20120601; EP 12730819 A 20120601; HK 14110141 A 20141010; JP 2014516258 A 20120601; MX 2013015236 A 20120601; US 201214125730 A 20120601; ZA 201308983 A 20131129