

Title (en)

Closing device with chamber for a container of substances to be kept separate until dispensing

Title (de)

Verschlussvorrichtung mit einer Kammer für einen Behälter zur getrennten Aufbewahrung von Substanzen vor dem Gebrauch

Title (fr)

Dispositif de fermeture comportant une chambre pour un récipient destiné au stockage séparé de substances avant utilisation

Publication

EP 1623932 A1 20060208 (EN)

Application

EP 05107010 A 20050729

Priority

IT MI20041577 A 20040730

Abstract (en)

Closing device with chamber for a container (2) comprising a hollow capsule (3) provided with fixed attachment means (321) to said container, said capsule comprising a reservoir (4) in which a first substance is contained, to be kept separate from a second substance contained in said container until the moment of use, breaking means (311) of the base of said reservoir that can be actuated with pressure from the top of said capsule, wherein said capsule, said reservoir and said breaking means are made in a single body.

IPC 8 full level

B65D 51/28 (2006.01)

CPC (source: EP)

B65D 51/2835 (2013.01)

Citation (search report)

- [XY] FR 2745274 A1 19970829 - CAPSHOLD CI LIMITED [GB]
- [Y] US 5927549 A 19990727 - WOOD CHRISTOPHER J [US]
- [Y] US 6148996 A 20001121 - MORINI EMILIO [IT]
- [Y] DE 19950884 A1 20010426 - WELLA AG [DE]
- [A] WO 9317928 A1 19930916 - GENESCA ROMEU ISIDRO [ES]
- [X] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 17 5 June 2001 (2001-06-05)

Cited by

EP3560353A1; WO2020012203A1; ITTO20120506A1; EP2674371A1; US10252847B2; WO2014115111A2; WO2008117321A1; WO2016141311A1; WO2012137091A1; US9975683B2; WO2013018009A1

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