

Title (en)

A packaging with a spout for flowable products

Title (de)

Verpackung mit Ausgiessanordnung für fließfähige Produkte

Title (fr)

Emballage avec un bec verseur pour produits fluides

Publication

**EP 2554486 A1 20130206 (EN)**

Application

**EP 11176558 A 20110804**

Priority

EP 11176558 A 20110804

Abstract (en)

The present invention is directed to a container (1) comprising a deformable container body (2) with at least one compartment, for containing a flowable liquid, semi-liquid, or jellified product having a viscosity lower than 1 Pa.s at 20° C, and at least one dispensing opening (4) for dispensing said product, which is located in a spout element (3), said container having a capacity of at least 10ml, preferably at least 50ml, characterized in that the functional cross-section of said at least one opening is fixed and comprised between 0.002 mm<sup>2</sup> and 7 mm<sup>2</sup>, preferably between 0.008 mm<sup>2</sup> and 0.8 mm<sup>2</sup>, more preferably between 0.03 mm<sup>2</sup> and 0.4 mm<sup>2</sup>, and most preferably between 0.07 mm<sup>2</sup> and 0.2 mm<sup>2</sup>, such that said product flows through said opening only after an external force of at least 0.5 kg, preferably at least 1 kg, more preferably at least 3 kg, is exerted onto the container body walls which is directed towards the inside of said body.

IPC 8 full level

**B65D 1/32** (2006.01); **B65D 47/20** (2006.01); **B65D 83/00** (2006.01)

CPC (source: EP US)

**B65D 1/32** (2013.01 - EP US); **B65D 35/28** (2013.01 - US); **B65D 35/38** (2013.01 - US); **B65D 35/44** (2013.01 - US);  
**B65D 47/20** (2013.01 - EP US); **B65D 47/2018** (2013.01 - EP US); **B65D 83/0055** (2013.01 - EP US); **B65D 2401/15** (2020.05 - EP US)

Citation (search report)

- [XY] WO 2009056819 A2 20090507 - CARBONITE CORP [PA], et al
- [X] WO 2009151106 A1 20091217 - KAO CORP [JP], et al
- [Y] FR 2238642 A1 19750221 - LAB RIUNITI SPA [IT]
- [Y] US 4232721 A 19801111 - MARTIN JERRY D, et al
- [Y] EP 2113308 A1 20091104 - EPOPACK CO LTD [TW]
- [Y] US 7172087 B1 20070206 - AXE TIMOTHY P [US], et al
- [Y] US 3833154 A 19740903 - MARKOWITZ I
- [Y] DE 202010007898 U1 20100819 - PANTLEN FELICITAS [DE]

Cited by

WO2019086262A1

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)

**EP 2554486 A1 20130206**; CA 2842393 A1 20130207; CN 103717499 A 20140409; CN 103717499 B 20161116; EP 2739538 A1 20140611;  
JP 2014524872 A 20140925; MX 2014001266 A 20140519; MX 340935 B 20160801; US 2014203048 A1 20140724;  
WO 2013017579 A1 20130207

DOCDB simple family (application)

**EP 11176558 A 20110804**; CA 2842393 A 20120731; CN 201280038256 A 20120731; EP 12740979 A 20120731; EP 2012064910 W 20120731;  
JP 2014523300 A 20120731; MX 2014001266 A 20120731; US 201214236570 A 20120731