

Title (en)

Device capable of securing the distribution of a liquid contained in a vial

Title (de)

Vorrichtung, die in der Lage ist, die Verteilung einer in einem Flakon befindlichen Flüssigkeit sicherzustellen

Title (fr)

Dispositif apte à sécuriser la distribution d'un liquide contenu dans un flacon

Publication

**EP 2687198 B1 20160316 (FR)**

Application

**EP 13176223 A 20130711**

Priority

FR 1256867 A 20120716

Abstract (en)

[origin: EP2687198A2] The device has a section reducer (100) comprising a screw pitch screwed on an external screw pitch of a bottle. The reducer and an intermediate part (200) include a complementary connection unit formed of continuous and discontinuous pads to link the reducer and the intermediate part vertically in a permanent manner. A complementary blocking unit is formed of ribs and inclined strips to block the rotation of the intermediate part with respect to the reducer along a screwing direction and assure free rotation of the intermediate part with respect to the reducer along an unscrewing direction.

IPC 8 full level

**A61J 1/14** (2006.01); **A61J 1/20** (2006.01); **B65D 55/02** (2006.01)

CPC (source: EP)

**A61J 1/1487** (2015.05); **A61J 1/1418** (2015.05); **A61J 1/1425** (2015.05); **A61J 1/2096** (2013.01)

Cited by

CN105346837A; FR3077806A1; FR3067010A1; FR3067011A1; US10220989B2; US10202224B2

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)

**EP 2687198 A2 20140122**; **EP 2687198 A3 20141105**; **EP 2687198 B1 20160316**; FR 2993174 A1 20140117; FR 2993174 B1 20140725

DOCDB simple family (application)

**EP 13176223 A 20130711**; FR 1256867 A 20120716