

Title (en)

METHOD FOR MANUFACTURING AN AEROSOL VALVE, AND AEROSOL VALVE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES AEROSOLVENTILS SOWIE AEROSOLVENTIL

Title (fr)

PROCÉDÉ POUR FABRIQUER UNE VALVE D'AÉROSOL ET VALVE D'AÉROSOL

Publication

EP 3310690 A1 20180425 (FR)

Application

EP 16731080 A 20160613

Priority

- FR 1555497 A 20150616
- EP 2016063537 W 20160613

Abstract (en)

[origin: WO2016202754A1] The invention relates to a cup/valve assembly for an aerosol container, made up of a cup, of a valve body, of a rod, of a spring, of an inner seal and of means for retaining the rod in the valve body. At its centre, the cup has an opening (23), through which the rod protrudes. The rod comprises a bulge on its outer cylindrical face, and also an inner duct which has an upper opening at its upper end and at least one lateral opening at its lower end, the lateral orifice(s) being positioned between the bulge and the upper opening of the inner duct. The valve body has a cylindrical part provided with an opening at its upper end defining a top edge. In accordance with the invention, - the valve body is fastened to the opening (23) in the cup by fastening means (36), leaving the opening in the cylindrical part free, - that part of the rod that extends from the bulge to the opposite end of the inner duct is situated inside the valve body, bearing against the spring, - the means for retaining the rod in the valve body are made up of a retaining ring (5) which surrounds, without clamping, that part of the rod that is situated between the lateral orifice(s) and the upper opening of the duct, the outside diameter of the retaining ring being greater than the diameter of the opening (23) and the inside diameter of the retaining ring being less than the diameter of the bulge on the rod, the retaining ring being fastened to the cup by fastening means, the inner seal (13) being interposed between the retaining ring (5) and the top edge of the cylindrical part of the valve body such that, in the closed position of the valve, the inner seal (13) clamps the rod at the lateral orifice(s) by blocking said lateral orifice(s) and such that the spring pushes back the rod by placing the bead thereof in abutment against the seal (13).

IPC 8 full level

B65D 83/38 (2006.01); **B65D 83/44** (2006.01); **B65D 83/48** (2006.01)

CPC (source: EP US)

B65D 83/207 (2013.01 - US); **B65D 83/38** (2013.01 - EP US); **B65D 83/48** (2013.01 - EP US)

Citation (search report)

See references of WO 2016202754A1

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)

WO 2016202754 A1 20161222; BR 112017027033 A2 20180821; BR 112017027033 B1 20220510; CA 2988053 A1 20161222; CA 2988053 C 20200225; CU 20170165 A7 20190204; EP 3310690 A1 20180425; EP 3310690 B1 20191009; ES 2761632 T3 20200520; FR 3037571 A1 20161223; FR 3037571 B1 20191122; MX 2017016293 A 20181112; PL 3310690 T3 20200430; PT 3310690 T 20191213; US 10532881 B2 20200114; US 2018134481 A1 20180517

DOCDB simple family (application)

EP 2016063537 W 20160613; BR 112017027033 A 20160613; CA 2988053 A 20160613; CU 20170165 A 20160613; EP 16731080 A 20160613; ES 16731080 T 20160613; FR 1555497 A 20150616; MX 2017016293 A 20160613; PL 16731080 T 20160613; PT 16731080 T 20160613; US 201615580160 A 20160613