

Title (en)

Assembly for dispensing at least one fluid product such as cosmetics or pharmaceuticals.

Title (de)

Abgabevorrichtung für wenigstens ein flüssiges Produkt, insbesondere kosmetischer oder pharmazeutischer Art.

Title (fr)

Ensemble de distribution d'au moins un produit fluide, notamment cosmétique ou pharmaceutique.

Publication

EP 0410858 B1 19940406

Application

EP 90402098 A 19900720

Priority

- EP 90400269 A 19900201
- FR 8910000 A 19890725

Abstract (en)

[origin: EP0410858A2] The invention relates to an assembly for dispensing at least one fluid product; this assembly comprises at least one dispensing channel 8c, each channel comprising at its end part a closure system opening to the exterior. The closure system is formed by a sealing device (9a) which is part of a piece made from elastically deformable material and a seat 8e which is part of another piece of the dispensing head (3), the sealing device (9a) being in contact with its associated seat (8e) when there is no dispensing, moving away from the seat due to elastic deformation under the pressure of the product to be dispensed and returning due to elasticity in contact with the said seat (8e) when dispensing ceases. The sealing device is subject to the action of a stressing member (11) which tends to keep it pressed on the seat (8e) with which it interacts. <IMAGE>

[origin: EP0410858A2] A dispenser for a fluid substance, esp. used in cosmetics or pharmaceuticals, consists of a cap (1) which fits onto the container (2) and made with at least one outlet channel (8). The/each outlet channel has a system which closes its outlet, made in the form of a shutter (9a) which is able to deform elastically and interact with a seat (8e). The deforming shutter and seat form a self-closing valve which is opened by the pressure of the fluid passing through it but closes once the pressure stops. The shutter is pressed towards the seat by a support which limits its deformation. The pressure which expels the fluid from the container can be of various types, e.g. a pump piston or flexible bulb.

IPC 1-7

B65D 35/50; **B05B 11/00**

IPC 8 full level

B65D 83/76 (2006.01); **B05B 11/00** (2006.01); **B65D 45/00** (2006.01); **B65D 47/20** (2006.01); **B65D 47/28** (2006.01); **B65D 47/34** (2006.01); **B65D 77/04** (2006.01); **B65D 83/00** (2006.01)

CPC (source: EP US)

A45D 34/04 (2013.01 - EP US); **A45D 37/00** (2013.01 - EP US); **A45D 40/26** (2013.01 - EP US); **B05B 11/0032** (2013.01 - EP US); **B05B 11/007** (2013.01 - EP US); **B05B 11/0072** (2013.01 - EP US); **B05B 11/0078** (2013.01 - EP US); **B05B 11/026** (2013.01 - EP US); **B05B 11/028** (2013.01 - EP US); **B05B 11/1001** (2013.01 - EP US); **B05B 11/1004** (2013.01 - EP US); **B05B 11/1032** (2013.01 - EP US); **B05B 11/1056** (2013.01 - EP US); **B05B 11/1057** (2013.01 - EP US); **B05B 11/1061** (2013.01 - EP US); **B05B 11/1067** (2013.01 - EP US); **B05B 11/1069** (2013.01 - EP US); **B05B 11/1074** (2013.01 - EP US); **B65D 45/00** (2013.01 - EP US); **B65D 47/2018** (2013.01 - EP US); **B65D 77/04** (2013.01 - EP US); **B65D 83/0055** (2013.01 - EP US); **A45D 2040/0018** (2013.01 - EP US); **A45D 2200/051** (2013.01 - EP US); **A45D 2200/056** (2013.01 - EP US); **A45D 2200/058** (2013.01 - EP US); **B05B 11/0027** (2013.01 - EP US)

Cited by

EP2138424A1; EP0906873A1; FR2769299A1; EP0905037A1; FR2769008A1; CN107824464A; FR2906232A1; US5505341A; EP0747292A4; FR2933082A1; EP0599301A1; EP0632977A1; US6116466A; US5964377A; EP1033175A1; CN1105604C; US6116475A; US7971757B2; WO2017139361A1; WO2008037909A1; WO9919075A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0410858 A2 19910130; **EP 0410858 A3 19910508**; **EP 0410858 B1 19940406**; AT E103874 T1 19940415; AT E132454 T1 19960115; AT E134961 T1 19960315; AT E138034 T1 19960615; CA 2021856 A1 19910126; CA 2021856 C 19990615; DE 69007894 D1 19940511; DE 69007894 T2 19941103; DE 69024668 D1 19960215; DE 69024668 T2 19960912; DE 69025774 D1 19960411; DE 69025774 T2 19961107; DE 69027051 D1 19960620; DE 69027051 T2 19970116; EP 0540129 A1 19930505; EP 0540129 B1 19960306; EP 0549049 A1 19930630; EP 0549049 B1 19960515; EP 0549050 A1 19930630; EP 0549050 B1 19960103; ES 2050976 T3 19940601; ES 2083075 T3 19960401; ES 2084268 T3 19960501; ES 2087439 T3 19960716; JP 2554314 B2 19961113; JP H03148455 A 19910625; JP H07291331 A 19951107; JP H0755715 B2 19950614; US 5301850 A 19940412; US 5379919 A 19950110; US 5388728 A 19950214; US 5413250 A 19950509

DOCDB simple family (application)

EP 90402098 A 19900720; AT 90402098 T 19900720; AT 92203939 T 19900720; AT 92203940 T 19900720; AT 92203941 T 19900720; CA 2021856 A 19900724; DE 69007894 T 19900720; DE 69024668 T 19900720; DE 69025774 T 19900720; DE 69027051 T 19900720; EP 92203939 A 19900720; EP 92203940 A 19900720; EP 92203941 A 19900720; ES 90402098 T 19900720; ES 92203939 T 19900720; ES 92203940 T 19900720; ES 92203941 T 19900720; JP 19507790 A 19900725; JP 31233794 A 19941124; US 17406293 A 19931228; US 17445693 A 19931228; US 17688594 A 19940103; US 91625692 A 19920721