

## Title (en)

Assembly for dispensing a fluid product such as cosmetics or pharmaceuticals

## Title (de)

Abgabevorrichtung für ein flüssiges Produkt, insbesondere kosmetischer oder pharmazeutischer Art

## Title (fr)

Ensemble de distribution de produit fluide, en particulier cosmétique ou pharmaceutique

## Publication

**EP 0540129 B1 19960306 (FR)**

## Application

**EP 92203939 A 19900720**

## Priority

- EP 92203939 A 19900720
- EP 90402098 A 19900720
- EP 90400269 A 19900201
- FR 8910000 A 19890725

## Abstract (en)

[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**; **B65D 47/20**

## 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** (2023.01 - EP US); **B05B 11/028** (2023.01 - EP US); **B05B 11/1001** (2023.01 - EP US); **B05B 11/1004** (2023.01 - EP US); **B05B 11/1032** (2023.01 - EP US); **B05B 11/1056** (2023.01 - EP US); **B05B 11/1057** (2023.01 - EP US); **B05B 11/1061** (2023.01 - EP US); **B05B 11/1067** (2023.01 - EP US); **B05B 11/1069** (2023.01 - EP US); **B05B 11/1074** (2023.01 - 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

FR2750406A1; WO9800354A1

## 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