

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.

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Application

EP 92203941 A 19900720

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Abstract (en)

The invention relates to an assembly (2501) for dispensing at least one fluid product. This assembly comprises at least one dispensing channel (2543), comprising at its end part a closure system (F) which opens onto the outside. The closure system is formed by a shutter consisting of an elastic piece (2505), one part of which is located opposite the opening of the channel (2543) and which, in this zone, moves away from the seat by elasticity parallel to the direction of thrust of the product. <IMAGE>

Abstract (fr)

L'invention concerne un ensemble de distribution. (2501) d'au moins un produit fluide. Cet ensemble comporte au moins un canal (2543) de distribution, comportant à sa partie terminale un système de fermeture (F) s'ouvrant sur l'extérieur. Le système de fermeture est formé par un obturateur constitué par une pièce élastique (2505) dont une partie est disposée en vis-à-vis de l'ouverture du canal (2543) et qui, dans cette zone, s'écarte du siège par élasticité parallèlement à la direction de poussée du produit. <IMAGE>

IPC 1-7

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IPC 8 full level

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Citation (search report)

- [A] GB 2083142 A 19820317 - PFEIFFER KUNSTSTOFFTECH GMBH
- [A] BE 388502 A
- [AD] US 4099651 A 19780711 - VON WINCKELMANN EMIL H
- [A] US 4124150 A 19781107 - MOSS NORMAN W
- [A] US 3820689 A 19740628 - COCITA A

Cited by

EP1790416A1; EP0888823A1; FR2765560A1; US6070763A; US7434710B2; WO9531121A1

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