

Title (en)

Rechargeable dispenser with a moving piston.

Title (de)

Beladbarer Spender mit einem verschiebbaren Kolben.

Title (fr)

Distributeur rechargeable comportant un piston translatable.

Publication

**EP 0337867 A1 19891018 (FR)**

Application

**EP 89400977 A 19890410**

Priority

FR 8805026 A 19880415

Abstract (en)

[origin: JPH0219290A] PURPOSE: To obtain a dispenser equipped with an interchangeable reservoir by providing the reservoir with a frustoconical surface that comes to be pressed against a corresponding frustoconical surface of a nut or a support or both of them when integrally joining the reservoir to the support and tightening each sector of the nut around a threaded rod. CONSTITUTION: When a support 7 is further pushed forward in the cylindrical portion 1b so as to fit this, thread of a rod 5 pushes to widen two half-nuts separated by a slit 10 because these two half-nuts are not mutually restricted. The rod 5 slides in a nut 9 accompanied by friction until the nut 9 returns to the position where the refraction completely finishes within the support 7. And a plunger 4 pushes a flat portion 12 of the nut 9. It pushes the frustoconical surface 1c when reaching this position, and makes the two half-nuts no longer being capable of spreading apart by locking them. In this manner, the screw of the hole 11 engages again with the screw of the rod 5, which is thus driven so as to perform translation with respect to the reservoir 1 when the rod 5 starts rotating with mechanism integrated in the support 7, so that the product 3 can be dispensed.

Abstract (fr)

L'invention concerne un distributeur de produit (3) compact contenu dans un réservoir cylindrique (1) ; le produit (3) est éjecté par un piston (4) déplaçable en translation dans le réservoir et monté en bout d'une tige filetée (5), qui coopère avec un écrou (9). La tige (5) est entraînée en rotation pas à pas par un bouton-poussoir (8). Le support (7) du mécanisme et de l'écrou (9) est amovible par rapport au réservoir (1) grâce à un filetage. L'écrou (9) qui coopère avec la tige (5) est fendu selon un plan diamétral pour autoriser le réenfoncement de la tige quand les demi-écrous peuvent s'écarter. Le réservoir comporte une portée tronconique (1c), qui assure le pincement des demi-écrous quand le mécanisme est mis en place à la base du réservoir plein.

IPC 1-7

**A45D 40/04**

IPC 8 full level

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CPC (source: EP KR US)

**A45D 40/00** (2013.01 - KR); **A45D 40/04** (2013.01 - EP US)

Citation (search report)

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- [A] EP 0015784 A1 19800917 - PILOT PEN CO LTD [JP]
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