

Title (en)

Dispenser for pasty detergents, particularly in the form of gel with microspheres

Title (de)

Spender für pastenförmige Reinigungsmittel, insbesondere Gel mit Mikrosphären

Title (fr)

Distributeur pour détergents pâteux, particulièrement pour un gel avec des microsphères

Publication

**EP 1243217 A1 20020925 (EN)**

Application

**EP 01830175 A 20010314**

Priority

EP 01830175 A 20010314

Abstract (en)

A dispenser for pasty detergents includes a socket (A) for introducing a detergent container and a chamber (G) in communication with the socket (A) through a one-way detergent inlet valve and with the outside through a one-way outlet valve, a pressure and a vacuum being alternately created in said chamber (G) through a pump (P) provided with a return spring (S). Each of said one-way inlet and outlet valves consists of a membrane (M; V) made of an elastically deformable material and provided with a central bore, and of a corresponding conical shutter (N; Z) suitable to close said bore. The central portion of the membrane is thicker so as to have a greater rigidity, whereby in the closing return motion when it abuts against the conical surface of the shutter (N; Z) it cuts the residual film of detergent possibly remaining and achieves a perfect tightness without risk of dripping. <IMAGE>

IPC 1-7

**A47K 5/12**

IPC 8 full level

**A47K 5/12** (2006.01)

CPC (source: EP)

**A47K 5/1208** (2013.01)

Citation (applicant)

- US 3838985 A 19741001 - ORNSTEIN J
- GB 1261815 A 19720126 - HANDTMANN METALLGUSS ALBERT [DE], et al

Citation (search report)

- [Y] US 3211340 A 19651012 - ZANDER WALDO H, et al
- [Y] US 6092695 A 20000725 - LOEFFLER HERBERT H [US]
- [A] DE 2341259 A1 19750306 - GSS GES FUER SANITAERE SPENDER
- [A] CH 285438 A 19520915 - CHURCHILL HENRY WINSTON S [GB], et al
- [A] US 3288332 A 19661129 - JEAN-CLAUDE ETTER, et al
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