

Title (en)  
Pump dispenser for use in any position

Title (de)  
Pumpenspender zur Anwendung in beliebiger Richtung

Title (fr)  
Flacon pompe à utilisation multidirectionnelle

Publication  
**EP 1226874 A1 20020731 (FR)**

Application  
**EP 01403347 A 20011221**

Priority  
FR 0101224 A 20010130

Abstract (en)  
The flask (2) has a supple inner pouch (10) to contain the product to be dispensed by an airless pump (5) with a plunger tube (14) that extends to half the depth of the pouch while an air inlet (9) maintains the pressure inside the pouch as it empties. The flask (2) has a supple inner pouch (10) to contain the product to be dispensed by an airless pump (5) with a plunger tube (14) that extends to half the depth of the pouch while an air inlet (9) maintains the pressure inside the pouch as it empties. The pouch is attached to the inner surface of the flask along at least one lengthwise zone so that it maintains an even cross-section as its volume reduces, and the remaining fluid extends beyond the open end of the plunger tube.

Abstract (fr)  
La présente demande concerne un dispositif (1) comprenant un récipient (2) à l'intérieur duquel est disposé une poche à parois souples (10) contenant le produit, ladite poche étant d'axe longitudinal X, et reliée à une pompe sans reprise d'air (5) équipée d'un tube plongeur (13) dont une extrémité libre (14) est située sensiblement à la moitié de la hauteur axiale de la poche. <IMAGE>

IPC 1-7  
**B05B 11/00**; **B65D 83/00**

IPC 8 full level  
**A45D 34/04** (2006.01); **B05B 11/00** (2006.01); **B65D 47/34** (2006.01); **B65D 65/38** (2006.01); **B65D 77/04** (2006.01); **B65D 83/00** (2006.01); **B65D 83/76** (2006.01)

CPC (source: EP US)  
**B05B 11/0059** (2013.01 - EP US); **B05B 11/026** (2023.01 - EP US); **B65D 83/0055** (2013.01 - EP US); **B65D 2231/001** (2013.01 - EP US)

Citation (search report)

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- [A] EP 0182094 B
- [A] GB 1601424 A 19811028 - RHEN BETEILIGUNG FINANZ
- [DA] DE 7707773 U1 19800131
- [XA] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 07 31 July 1997 (1997-07-31)

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