

Title (en)
Dosing bottle

Title (de)
Flasche mit Dosiervorrichtung

Title (fr)
Flacon doseur

Publication
EP 0786419 A1 19970730 (FR)

Application
EP 96402773 A 19961217

Priority
FR 9600862 A 19960125

Abstract (en)
The container consists of a reservoir (101) holding the product (102) and having an outlet end (P) surrounded by a neck (112). It also comprises a pressure generator (103) and a second aperture (R) with a product retainer or reduction valve. It incorporates a fixing element (104) which holds the pressure generator onto the reservoir, and the latter has a one-time or semi-permanent seal (106). The lower end of the container has a cover (109) which interacts with the reduction valve, and the body has a rigidity which is sufficient to prevent deformation under normal manual pressure, being made e.g. from glass, plastics or aluminium. It can also be made e.g. from thermoplastics such as polypropylene, polyethylene or polystyrene or copolymers. The pressure generator has a volume of between 0.2 and 25 per cent of the volume of the reservoir; it can be made in the form of a bulb of an elastomer material, a piston or a bellows, and it can be partially contained inside a rigid component made e.g. from polypropylene, polyethylene, polystyrene or copolymers.

Abstract (fr)
Nouveau flacon comprenant un corps réservoir (101) contenant un produit (102) et muni d'au moins deux ouvertures, l'une de ces ouvertures (P) étant munie d'un moyen d'élévation de pression (103) et l'autre ouverture (R) étant munie d'un moyen de freinage et de rétention du produit (110). Ce dispositif permet une manipulation aisée, autorise une distribution contrôlée et éventuellement un dosage fin du produit, tout en assurant une bonne conservation du produit au cours du temps. <IMAGE>

IPC 1-7
B65D 83/00; **B05B 11/00**; **B65D 1/08**

IPC 8 full level
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B05B 11/0027 (2013.01 - EP); **B05B 11/0032** (2013.01 - EP); **B05B 11/061** (2013.01 - EP); **B65D 47/2025** (2013.01 - EP US); **B65D 47/205** (2013.01 - EP US); **B65D 83/0094** (2013.01 - EP US); **B05B 7/0018** (2013.01 - EP)

Citation (applicant)

- US 3145879 A 19640825 - WILLIAMS HAROLD W
- FR 733446 A 19321005 - NICOTLESS
- FR 1248664 A 19601223 - LONG & HAMBLY LTD
- FR 2411140 A2 19790706 - SEPPIC SA [FR]
- FR 1164796 A 19581014 - SOC IND FAB ANTIBIOTIQUES SIFA
- FR 771150 A 19341001
- US 4770305 A 19880913 - SU YUNG-FR [TW]
- FR 2656240 A1 19910628 - WENMAEKERS EDMOND, et al

Citation (search report)

- [DYA] US 3145879 A 19640825 - WILLIAMS HAROLD W
- [Y] US 4162030 A 19790724 - ANTENORE RONALD L [US], et al
- [DA] FR 2411140 A2 19790706 - SEPPIC SA [FR]
- [A] FR 59866 E 19540823
- [DA] FR 1248664 A 19601223 - LONG & HAMBLY LTD
- [DA] FR 733446 A 19321005 - NICOTLESS
- [DA] FR 771150 A 19341001
- [DA] FR 1164796 A 19581014 - SOC IND FAB ANTIBIOTIQUES SIFA
- [A] FR 2630409 A3 19891027 - TARTAGLIONE ANDRE [FR]
- [DA] US 4770305 A 19880913 - SU YUNG-FR [TW]
- [A] FR 1376462 A 19641031

Cited by
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