

Title (en)

Container for spraying liquids and method of manufacturing it

Title (de)

Behälter zum Verstäuben von Flüssigkeiten und Verfahren zur Herstellung desselben

Title (fr)

Conditionnement de pulvérisation, procédé de fabrication

Publication

EP 0732276 A1 19960918 (FR)

Application

EP 96400351 A 19960220

Priority

FR 9503012 A 19950315

Abstract (en)

The cylindrical liquid spray container (1) has an aluminium body (2) and a plastic cap (3). The body consists of a compartment (4) containing liquid (5) and a separate compartment (6) containing propellant gas (7). A piston (8) with a toroidal joint (9) contained within the internal wall (17) separates the two compartments. The cap protects a spray assembly constituted by a valve (10) on which is inserted a control rod (11). The rod has a shoulder (12) on which is supported a peg (13) with an orifice and a channel (14) discharging into a liquid spray nozzle (15). The cap has a push button (16) for operating the spray. On the internal wall are regularly spaced scratches (18) extending to a depth of 30 μ m into the wall. These scratches are obtained by brushing the wall with a rotating metal hair brush. The scratches ensure sealing between the piston and the wall. The propellant gas and liquid are sealed from each other by means of scratches in the container internal wall avoiding the use of varnish coatings normally used for this purpose.

Abstract (fr)

La présente invention concerne un conditionnement (1) ayant un axe longitudinal, comprenant une paroi interne (17) et une paroi externe, et dans lequel coulisse un piston (8). Une partie de la paroi interne, susceptible d'être en contact avec le piston, comprend des rayures (18) perpendiculaires à l'axe longitudinal pour assurer une étanchéité entre le piston et cette paroi. <IMAGE>

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CPC (source: EP US)

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Citation (search report)

- [X] FR 370458 A 19070207 - OTTO CARL RAUHE [DE]
- [X] US 3915352 A 19751028 - SCHEINDEL CHRISTIAN T
- [X] US 5056690 A 19911015 - ICHIHARA TAKASHI [JP], et al
- [X] DE 3624638 A1 19880204 - RITTER PLASTIC GMBH [DE]
- [A] US 3273762 A 19660920 - O'NEILL JR PAUL J

Cited by

US6039222A; CN107810143A; EP4410706A1

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