Title (en)

DISPENSING CARTRIDGE WITH A SUPPLY CYLINDER AND AN EXPULSION PISTON

Publication

EP 0344491 B1 19921223 (DE)

Application

EP 89108449 A 19890511

Priority

CH 211088 A 19880603

Abstract (en)

[origin: EP0344491A1] When filling dispensing cartridges (1), having an expulsion piston (10) which is displaceable in a sealing manner in the supply cylinder (3), the inclusion of air in the cylinder above the contents (2) of the cartridge must be avoided. For this purpose, the bottom surface (13) of the piston facing the contents (2) is constantly recessed from the edge of the piston towards the centre and a venting borehole (15) extends from the lowest point (14) through the piston towards the outside. Seated in the borehole (15) is a closure screw, extending along the shaft (16) of which there are longitudinal grooves (18). The latter are surrounded by an annular sealing surface (19) which is intended as an axial seat for the screw head (17). When the screw is tightened, all the longitudinal grooves (18) are reliably closed. The filling, venting and closure can easily be automated in this design and the piston ring seal (12) is not impaired. Even viscous contents with an uneven surface (6) can be vented satisfactorily by a system of radial slots (20) on the bottom surface (13). <IMAGE>

IPC 1-7

B65D 83/00

IPC 8 full level

B65D 83/00 (2006.01); B05C 17/005 (2006.01)

CPC (source: EP US)

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Cited by

DE102008000841A1; EP1514611A2; EP0497739A3; DE10342090B4; US5316186A; DE9315032U1; EP0463991A1; US5178305A; US5085350A; DE102008000841B4; US9797511B2; WO2012055921A1; US7353972B2; US9844796B2; US10279935B2

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