

Title (en)
DISPENSER WITH A PISTON MOVABLE IN TRANSLATION

Publication
EP 0382590 B1 19930922 (FR)

Application
EP 90400142 A 19900118

Priority
FR 8901612 A 19890208

Abstract (en)
[origin: EP0382590A1] This dispenser (1) comprises a body (2) in two separable sections (2a, 2b). The front section (2a) receives a reservoir (4) containing the product (3) to be dispensed between an outlet orifice (5) and a piston (6), which is controlled by a rod (7) which is movable in translation step by step by a mechanism (8) housed in the rear section (2b). The rod (7) comprises rear ratchets (29a) and forward ratchets (29b) normally engaged with the teeth (22), and, between the ratchets, elastic regions (28) which apply a return force on a push-button (9) closing the section (2b). A pivoting by 90 DEG of the push-button (9) drives the cage in rotation and brings it into a position in which the ratchets bear on the flats (21) which disengages the mechanism. In the engaged position, each push on the push-button results in an advance of the rod (7) equal to one rack tooth. <IMAGE>

IPC 1-7
A45D 40/02; **A45D 40/26**

IPC 8 full level
A45D 40/20 (2006.01); **A45D 40/02** (2006.01); **A45D 40/26** (2006.01); **A61M 35/00** (2006.01); **B65D 83/00** (2006.01)

CPC (source: EP KR US)
A45D 33/00 (2013.01 - KR); **A45D 40/02** (2013.01 - EP US); **A45D 40/262** (2013.01 - EP US); **A45D 2040/207** (2013.01 - EP US);
A45D 2040/208 (2013.01 - EP US)

Cited by
EP1736245A3; IT201600128903A1; DE4227560C1; US5294205A; US8714854B2; WO2009062633A1

Designated contracting state (EPC)
DE ES GB IT

DOCDB simple family (publication)
EP 0382590 A1 19900816; **EP 0382590 B1 19930922**; CA 2009215 A1 19900808; CA 2009215 C 19990323; DE 69003405 D1 19931028; DE 69003405 T2 19940511; ES 2044457 T3 19940101; FR 2642623 A1 19900810; FR 2642623 B1 19910503; JP H0314483 A 19910123; JP H0631113 B2 19940427; KR 900012568 A 19900901; KR 970002539 B1 19970306; US 5011317 A 19910430

DOCDB simple family (application)
EP 90400142 A 19900118; CA 2009215 A 19900202; DE 69003405 T 19900118; ES 90400142 T 19900118; FR 8901612 A 19890208; JP 2730790 A 19900208; KR 900001486 A 19900208; US 47432690 A 19900202