

Title (en)
Dispensing device.

Title (de)
Ausgabeanordnung.

Title (fr)
Dispositif distributeur.

Publication
EP 0330928 B1 19941214 (EN)

Application
EP 89102731 A 19890217

Priority
US 16155088 A 19880229

Abstract (en)
[origin: EP0330928A2] A dispenser, particularly useful as a pump for viscous material such as toothpaste has, in one embodiment, a body (15), a spout (13) at the top of the body, a tube (20) disposed vertically within the body aligned to register with the spout, a piston (17) surrounding the tube below the top and a spring (19) exerting continuous downward force on the piston so that the material to be dispensed which is located under the piston is forced up through the tube and out the spout when the spout is open. The spout may be the turret type. Another embodiment comprises the same basic design, but it adapted to receive a refill container of the material. This Abstract shall not be construed to limit the scope of the specification, drawings or claims.

IPC 1-7
B65D 83/00

IPC 8 full level
B05C 5/00 (2006.01); **B65D 83/00** (2006.01)

CPC (source: EP)
B65D 83/0016 (2013.01)

Cited by
CN108861133A; GB2424862A; EP3248902A1; CN111295515A; WO2005047139A1; WO2019089564A1; EP2279821B1

Designated contracting state (EPC)
AT BE CH DE ES FR GB GR IT LI NL SE

DOCDB simple family (publication)
EP 0330928 A2 19890906; EP 0330928 A3 19901114; EP 0330928 B1 19941214; AR 246420 A1 19940831; AT E115495 T1 19941215; AU 3004889 A 19890831; AU 619801 B2 19920206; BR 8900889 A 19891017; DE 68919873 D1 19950126; DK 96489 A 19890830; DK 96489 D0 19890228; JP H026870 A 19900111; NZ 228003 A 19920428; PT 89883 A 19891110; PT 89883 B 19950531; ZA 891556 B 19910731

DOCDB simple family (application)
EP 89102731 A 19890217; AR 31330289 A 19890228; AT 89102731 T 19890217; AU 3004889 A 19890217; BR 8900889 A 19890227; DE 68919873 T 19890217; DK 96489 A 19890228; JP 4843189 A 19890228; NZ 22800389 A 19890215; PT 8988389 A 19890301; ZA 891556 A 19890228