

Title (en)  
Sealless dispensing mechanism.

Title (de)  
Abgabevorrichtung ohne Dichtung.

Title (fr)  
Mécanisme de distributeur sans joint.

Publication  
**EP 0294197 A2 19881207 (EN)**

Application  
**EP 88305035 A 19880602**

Priority  
US 5761487 A 19870603

Abstract (en)  
A simplified fluid dispenser (20) for dispensing precise quantities of fluid without requiring special seals, particularly sliding seals, or springs. It comprises a housing (22) defining a fluid reservoir (24), having an inlet (26) for delivery of pressurized fluid to the reservoir (24), and including a valve seat (44) defining an outlet (42) for dispensing fluid from the reservoir (24). A deformable closure member overlies an open end of the housing (22) opposite the outlet (42) and normally biases a valve engageable with the valve seat (44) to the closed position. When the closure member is selectively deformed, the valve is able to move to the open position to dispense a quantity of the fluid from the reservoir. When released, the closure member returns to its normal condition, returning the valve to the closed position instantaneously shutting off the dispensing of fluid. This operation causes the fluid being dispensed to rapidly reverse direction resulting in an immediate termination of flow and elimination of drippage.

IPC 1-7  
**B05C 5/02**; **B65B 51/02**

IPC 8 full level  
**B05C 5/02** (2006.01); **B05C 17/00** (2006.01); **B05C 17/005** (2006.01); **F16K 21/16** (2006.01)

CPC (source: EP)  
**B05C 5/0225** (2013.01); **B05C 17/002** (2013.01)

Cited by  
EP0565972A1; EP1147820A3; CN112827757A

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 0294197 A2 19881207**; **EP 0294197 A3 19900307**; **EP 0294197 B1 19930804**; CA 1291729 C 19911105; DE 3882810 D1 19930909; DE 3882810 T2 19940120; JP 2691992 B2 19971217; JP S6479477 A 19890324

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