

Title (en)  
MANUALLY OPERATED METERING PUMP FOR A CONTAINER WITH A FLEXIBLE BODY

Title (de)  
HANDBETÄTIGTE DOSIERPUMPE FÜR EINE FLASCHE MIT EINEM VERFORMBAREN BEUTEL

Title (fr)  
POMPE DOSEUSE A COMMANDE MANUELLE POUR FLACON A ENVELOPPE DEFORMABLE

Publication  
**EP 0790936 B1 19980429 (FR)**

Application  
**EP 95940287 A 19951108**

Priority  
• FR 9501470 W 19951108  
• FR 9413582 A 19941110

Abstract (en)  
[origin: WO9615045A1] A manually operated metering pump for a container with a flexible body, comprising a metering chamber (20) between a lower valve (21) and an upper valve (48), a spring-biased push button (34), and a nozzle communicating with the metering chamber (20) via a central channel. The lower valve (21) is flexible and frusto-conical, and the upper valve (48) is supported on a disc (47) forming the base of a hollow rod (43) secured to the push button (34), and engages the bottom of a hollow plunger (32) operated by means of the push button (34).

IPC 1-7  
**B65D 47/34**; **B05B 11/00**

IPC 8 full level  
**B65D 47/20** (2006.01); **B05B 11/00** (2006.01); **B65D 47/34** (2006.01)

CPC (source: EP KR US)  
**B05B 11/026** (2023.01 - EP US); **B05B 11/1023** (2023.01 - EP US); **B05B 11/1067** (2023.01 - EP US); **B05B 11/1074** (2023.01 - EP US); **B65B 11/00** (2013.01 - KR); **B65D 47/00** (2013.01 - KR)

Cited by  
DE10335842A1; DE10335842B4; DE10335842C5

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

DOCDB simple family (publication)  
**WO 9615045 A1 19960523**; AT E165576 T1 19980515; CA 2204647 A1 19960523; CA 2204647 C 20070116; DE 69502295 D1 19980604; DE 69502295 T2 19980903; EP 0790936 A1 19970827; EP 0790936 B1 19980429; ES 2116114 T3 19980701; FR 2726810 A1 19960515; FR 2726810 B1 19970131; JP 3235665 B2 20011204; JP H10512485 A 19981202; KR 100262779 B1 20000901; KR 970707024 A 19971201; US 6021924 A 20000208

DOCDB simple family (application)  
**FR 9501470 W 19951108**; AT 95940287 T 19951108; CA 2204647 A 19951108; DE 69502295 T 19951108; EP 95940287 A 19951108; ES 95940287 T 19951108; FR 9413582 A 19941110; JP 51578496 A 19951108; KR 19970703120 A 19970509; US 83634997 A 19970529