

Title (en)  
FLUID PRODUCT DISPENSER

Title (de)  
SPENDER FÜR FLÜSSIGES PRODUKT

Title (fr)  
DISTRIBUTEUR DE PRODUIT FLUIDE

Publication  
**EP 1397298 A1 20040317 (FR)**

Application  
**EP 02732818 A 20020412**

Priority  
• FR 0201282 W 20020412  
• FR 0108037 A 20010619

Abstract (en)  
[origin: FR2825987A1] A clip like return spring (15) biases the deformable actuating wall (112) of a variable volume fluid reservoir (111) to a rest position, when the fluid reservoir is in a maximum volume. The return spring is arranged outside the reservoir, so as not to come in contact with the fluid stored in the reservoir.

IPC 1-7  
**B65D 83/00**; **A45D 37/00**; **B05B 11/04**; **B65D 75/58**

IPC 8 full level  
**B05B 11/04** (2006.01); **B65D 75/58** (2006.01); **B65D 77/30** (2006.01); **B65D 83/00** (2006.01); **B65D 83/06** (2006.01); **B05B 11/00** (2006.01)

CPC (source: EP US)  
**B05B 11/042** (2013.01 - EP US); **B05B 11/048** (2013.01 - EP US); **B05B 11/1077** (2023.01 - EP US); **B65D 75/5811** (2013.01 - EP US); **B65D 75/5872** (2013.01 - EP US); **B65D 83/0055** (2013.01 - EP US); **B65D 83/06** (2013.01 - EP US); **B65D 2221/00** (2013.01 - EP US)

Citation (search report)  
See references of WO 02102684A1

Designated contracting state (EPC)  
DE ES FR GB IT

DOCDB simple family (publication)  
**FR 2825987 A1 20021220**; **FR 2825987 B1 20031212**; BR 0205617 A 20030708; BR 0205617 B1 20120502; CN 1187231 C 20050202; CN 1463241 A 20031224; DE 60205898 D1 20051006; DE 60205898 T2 20061019; EP 1397298 A1 20040317; EP 1397298 B1 20050831; ES 2247337 T3 20060301; JP 2004529833 A 20040930; US 2002190081 A1 20021219; US 6761288 B2 20040713; WO 02102684 A1 20021227

DOCDB simple family (application)  
**FR 0108037 A 20010619**; BR 0205617 A 20020412; CN 02802139 A 20020412; DE 60205898 T 20020412; EP 02732818 A 20020412; ES 02732818 T 20020412; FR 0201282 W 20020412; JP 2003505238 A 20020412; US 12318102 A 20020417