

Title (en)

ADAPTER FOR THE SELECTIVE INVERTED ACTUATION OF PUMP DISPENSERS

Title (de)

ADAPTER FÜR DIE WAHLWEISE ÜBERKOPFBETÄTIGUNG VON PUMPSPENDERN

Title (fr)

ADAPTATEUR PERMETTANT D'ACTIONNER AU CHOIX AU-DESSUS DE LA TÊTE DES DISTRIBUTEURS A POMPE

Publication

EP 1796847 B1 20091202 (DE)

Application

EP 05743541 A 20050525

Priority

- EP 2005005677 W 20050525
- DE 102004048248 A 20041004

Abstract (en)

[origin: WO2006037385A1] The invention relates to a dispenser (10) comprising a pump housing (14) with an adapter (12) for a container that contains fluid. Said dispenser comprises an adapter housing (24) with a passage (20) and inlets (28) for the fluid, an inlet valve (30) that is located in an annular chamber (51) and a non-return valve (32) that is located in a valve chamber (34). The adapter housing (24) consists of an upper part (44) and a lower part (46), which form the annular chamber (51), the latter being centrally traversed by a connecting pipe (52). A base (50) of the annular chamber (51) contains fluid inlets (28) for the inverted position of the dispenser (10) and comprises a fluid-tight collar (60) that projects radially beyond the inlets (28). The inlet valve (30) is an annular, flexible elastic valve disc (31), which surrounds and seals the annular groove (58) and whose external edge lies on the fluid-tight collar (60), sealing the inlets (28). In the inverted position of the adapter (12) however, the inlet valve is lifted off the fluid-tight collar (60) in order to open the inlets (28). The dispenser (10) permits an operationally reliable actuation in the normal upright position and in the inverted position. It has a simple construction and is thus economical to produce.

IPC 8 full level

B05B 11/00 (2006.01); **B67D 7/58** (2010.01)

CPC (source: EP US)

B05B 11/0059 (2013.01 - EP US); **B05B 11/1018** (2023.01 - EP US)

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

DE 102004048248 B3 20060209; DE 502005008644 D1 20100114; EP 1796847 A1 20070620; EP 1796847 B1 20091202; ES 2335112 T3 20100322; US 2008179350 A1 20080731; WO 2006037385 A1 20060413

DOCDB simple family (application)

DE 102004048248 A 20041004; DE 502005008644 T 20050525; EP 05743541 A 20050525; EP 2005005677 W 20050525; ES 05743541 T 20050525; US 66463805 A 20050525