

Title (en)  
Pump Dispenser

Title (de)  
Pumpenspender

Title (fr)  
Distributeur à pompe

Publication  
**EP 1938903 A2 20080702 (EN)**

Application  
**EP 07103844 A 20070309**

Priority  
KR 20060134588 A 20061227

Abstract (en)  
A pump dispenser is characterized by including a cap that is coupled with an opening of a container, a button (150) that is ascendably provided in an upper end of the cap (110) and that has a nozzle (170), a cylinder housing (210) that includes an inlet through which contents of the container are received and a pump chamber (250) in which the contents that are received from the inlet flow and that is coupled with the cap, a check valve (310) that is provided in the inlet of the cylinder housing to prevent the contents of the pump chamber from flowing backward to the container, a piston (350) that gets close to and separated from the check valve, that includes a guiding channel (370) in which the contents received to the pump chamber flow, and that ascends together with the pump chamber, a stem (510) that includes a connecting channel (530) that connects the guiding channel and the nozzle to each other and one end of which is coupled with the button and the other end of which is coupled with the piston so that the stem ascends, and a spring that is provided outside the stem to apply elastic force to the stem. The pump dispenser includes a sealing member (410) that is provided between the internal circumference of the cylinder housing and the external circumference of the piston to seal a gap between the cylinder housing and the piston.

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

CPC (source: EP)  
**B05B 11/1023** (2023.01); **B05B 11/1074** (2023.01)

Citation (applicant)  
KR 100456814 B1 20041110

Cited by  
US11471905B1; DE102016014898A1; CN112389849A; GB2491576A; GB2491104A; US2017341097A1; US11786923B2; US10953420B2; US10434531B2; USD1009628S; WO2016030266A3; WO2011036217A1; US11389814B1; USD991785S; US11925948B2; TWI411559B

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**EP 1938903 A2 20080702; EP 1938903 A3 20081001**; CN 101209766 A 20080702

DOCDB simple family (application)  
**EP 07103844 A 20070309**; CN 200710080390 A 20070309