

Title (en)  
NEEDLE VALVE PUMP FOR DISPENSING LIQUID PRODUCT

Title (de)  
NADELVENTILPUMPE ZUR ABGABE EINES FLÜSSIGEN PRODUKTS

Title (fr)  
POMPE A POINTEAU POUR LA DISTRIBUTION DE PRODUIT LIQUIDE

Publication  
**EP 1881872 B1 20110727 (FR)**

Application  
**EP 06743777 A 20060509**

Priority  
• FR 2006001029 W 20060509  
• FR 0551308 A 20050520

Abstract (en)  
[origin: WO2006125880A1] The invention concerns a pump (1) for dispensing liquid or semi-liquid product, designed to be used in particular in the pharmaceutical or cosmetic field. The pump (1) comprises a needle valve (2) and a dispensing head (4) manually movable on the pump housing (5) between an inactive position and a punctual product dispensing position. The head (4) includes a first cylinder (41) forming a metering chamber (7) of the pump, which communicates with a take-off tube (42) via a non-return valve (43), a piston (44) being slidably mounted in said first cylinder (41). The head also includes a second cylinder (5) wherein is slidably mounted said needle valve (2), means for elastic return (6) of the needle valve (2) in position for closing an orifice (45), and means (46) for allowing the liquid to pass between the metering chamber (7) and a second chamber (8) provided at the end of said dispensing head (4), said second cylinder (5) having a compartment (51) wherein are housed the elastic return means (6) and which is isolated from said second chamber (8) by sealing closure means (52).

IPC 8 full level  
**B05B 11/00** (2006.01)

CPC (source: EP US)  
**B05B 11/1004** (2023.01 - EP US); **B05B 11/1016** (2023.01 - EP US); **B05B 11/1074** (2023.01 - EP US); **B05B 11/1067** (2023.01 - EP US); **Y10T 137/85978** (2015.04 - EP US)

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**FR 2885887 A1 20061124; FR 2885887 B1 20101105**; AT E517696 T1 20110815; CN 101180133 A 20080514; CN 101180133 B 20100519; EP 1881872 A1 20080130; EP 1881872 B1 20110727; HK 1112676 A1 20080912; JP 2008540008 A 20081120; JP 5011280 B2 20120829; US 2008115845 A1 20080522; US 7780044 B2 20100824; WO 2006125880 A1 20061130

DOCDB simple family (application)  
**FR 0551308 A 20050520**; AT 06743777 T 20060509; CN 200680017548 A 20060509; EP 06743777 A 20060509; FR 2006001029 W 20060509; HK 08107777 A 20080715; JP 2008511745 A 20060509; US 94280607 A 20071120