

Title (en)

Manual pump with a free sleeve piston

Title (de)

Handbetätigte Pumpe mit einem mit einer Manchette versehenen freien Kolben

Title (fr)

Pompe manuelle à piston libre à manchette

Publication

EP 0888824 B1 20030219 (FR)

Application

EP 98401668 A 19980703

Priority

FR 9708526 A 19970704

Abstract (en)

[origin: EP0888824A1] The manual pump body defines a pump chamber with an inlet valve. A hollow activating rod which moves between rest and pushed positions is assisted into its rest position by a return spring. The rod has an internal return pumping channel. A free piston slides in the pump body on the activating rod. The rod has a stop surface (223) with which the piston engages during sliding upwards in order to create a seal at this point. An oversleeve (30) surrounding the activating rod has a lower end (32) in sealed contact at rest with the rod to form the outlet valve and an upper end engaging the rod stop surface during upwards sliding. The friction forces exerted between the piston and the pump body are greater than the friction forces exerted between the piston and the activating rod.

IPC 1-7

B05B 11/00

IPC 8 full level

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CPC (source: EP)

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Cited by

GB2481198A; CN105600112A; CN113825907A; FR2854822A1; CN100441312C; FR2791400A1; CN1128684C; US7520409B2; US6209759B1; US6471097B2; WO2004101168A1; WO0056465A1

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