

Title (en)

HAND OPERATED PUMP FOR EJACULATING SMALL AMOUNT

Title (de)

HANDBETÄTIGTE PUMPE ZUM AUSSTOSS KLEINER MENGEN

Title (fr)

POMPE ACTIONNEEE MANUELLEMENT POUR LE DECHARGEMENT DE PETITES QUANTITES DE LIQUIDE

Publication

**EP 1334277 A1 20030813 (EN)**

Application

**EP 00971843 A 20001019**

Priority

KR 0001178 W 20001019

Abstract (en)

[origin: WO0233258A1] The present invention relates to the manually operated pump for discharging small amount, of which the discharge rate is less than approximately 2 cc per one time, wherein the original function of the pump may be performed by means of just one spring by changing the structure of the shaft and the piston, the manufacturing process of the pump may be simplified by integrating the housing cap and the vessel cover and changing the structure of the cover to reduce the number of the constituent parts, the assembly process of the parts is simple, and the pumping is easier. And, it is an advantageous to improve the securing force between the housing and the cover and the sealing of the interior of the housing. Such a manually operated pump for discharging small amount is available in pumping both of the high viscous contents and low viscous contents.

IPC 1-7

**F04B 9/14**; **B65D 47/00**; **B05B 11/00**

IPC 8 full level

**F04B 9/14** (2006.01); **F04B 23/00** (2006.01); **B05B 11/00** (2006.01); **B65D 47/00** (2006.01)

CPC (source: EP)

**B05B 11/1023** (2023.01); **F04B 9/14** (2013.01)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**WO 0233258 A1 20020425**; AU 1059201 A 20020429; CN 1258647 C 20060607; CN 1502012 A 20040602; EP 1334277 A1 20030813; EP 1334277 A4 20050713; JP 2004511725 A 20040415

DOCDB simple family (application)

**KR 0001178 W 20001019**; AU 1059201 A 20001019; CN 00819969 A 20001019; EP 00971843 A 20001019; JP 2002536214 A 20001019