

Title (en)
DISPENSER PUMP

Title (de)
SPENDERPUMPE

Title (fr)
POMPE DE DISTRIBUTEUR

Publication
EP 1677917 A1 20060712 (DE)

Application
EP 04791060 A 20041029

Priority
• EP 2004012304 W 20041029
• DE 10351288 A 20031031

Abstract (en)
[origin: US7819291B2] A dispenser pump (1) that has a manually insertable pump shaft (6) which is surrounded by at least three sleeve sections (16, 17, 18) that can be slid into each other in a telescopic manner. A return spring (8) is preferably disposed between pump shaft (6) and the sleeve sections (16, 17, 18). All parts of the dispenser pump (1), which enter in contact with a liquid that is to be pumped, are made of plastic.

IPC 1-7
B05B 11/00; **F04B 9/14**

IPC 8 full level
B05B 11/00 (2006.01); **F04B 9/14** (2006.01)

CPC (source: EP US)
B05B 11/1001 (2023.01 - EP US); **B05B 11/1074** (2023.01 - EP US)

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

DOCDB simple family (publication)
WO 2005042172 A1 20050512; AT E380601 T1 20071215; CA 2544103 A1 20050512; CA 2544103 C 20120821; CN 100518952 C 20090729; CN 1874849 A 20061206; DE 10351288 B3 20050721; DE 502004005724 D1 20080124; EP 1677917 A1 20060712; EP 1677917 B1 20071212; ES 2295942 T3 20080416; US 2007045348 A1 20070301; US 7819291 B2 20101026

DOCDB simple family (application)
EP 2004012304 W 20041029; AT 04791060 T 20041029; CA 2544103 A 20041029; CN 200480032185 A 20041029; DE 10351288 A 20031031; DE 502004005724 T 20041029; EP 04791060 A 20041029; ES 04791060 T 20041029; US 59540504 A 20041029