

Title (en)

HAND PISTON PUMP COMPRISING A BLOCKABLE DISTRIBUTION HEAD WHICH IS USED TO DISTRIBUTE LIQUID SUBSTANCES

Title (de)

HANDKOLBENPUMPE MIT BLOCKIERBAREM AUSGABEKOPF ZUR AUSGABE VON FLUIDEN SUBSTANZEN

Title (fr)

POMPE A PISTON A MAIN POURVUE D'UNE TETE DE DISTRIBUTION BLOCABLE POUR DISTRIBUER DES SUBSTANCES FLUIDES

Publication

**EP 1861203 A1 20071205 (DE)**

Application

**EP 06723573 A 20060321**

Priority

- EP 2006002559 W 20060321
- DE 102005013408 A 20050323

Abstract (en)

[origin: DE102005013408A1] The hand pump has a blockable delivery head (1) with an inner locking sleeve (5) forming a cylinder guide. The locking sleeve forms with the piston rod (6) an inner cage (18) to hold a spring (19) which is supported on one side on a base (20) of the sleeve and on the other side on the locking element (21) provided on the piston rod. The locking sleeve forms with the cylinder along the upper section facing the delivery head a guide channel (11) as a guideway for the outer shaft section (12) of the head parallel to the piston rod. The locking sleeve can be inserted through a clamping ring (7) securely seated in the cylinder to form a stop for the outer shaft section .

IPC 8 full level

**B05B 1/00** (2006.01); **B67D 99/00** (2010.01); **B67D 7/58** (2010.01)

CPC (source: EP US)

**B05B 11/1023** (2023.01 - EP US); **B05B 11/1059** (2023.01 - EP); **B05B 11/106** (2023.01 - EP US); **B05B 11/1067** (2023.01 - EP); **B05B 11/1074** (2023.01 - EP US); **B05B 11/0044** (2018.07 - EP)

Citation (search report)

See references of WO 2006100028A1

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)

**DE 102005013408 A1 20060928**; CN 100546726 C 20091007; CN 101171088 A 20080430; EP 1861203 A1 20071205; EP 1861203 B1 20130508; US 2008190960 A1 20080814; WO 2006100028 A1 20060928; WO 2006100028 A8 20061207; WO 2006100028 A8 20071213

DOCDB simple family (application)

**DE 102005013408 A 20050323**; CN 200680014887 A 20060321; EP 06723573 A 20060321; EP 2006002559 W 20060321; US 90932106 A 20060321