

Title (en)
Hose pump with unthreading device

Title (de)
Schlauchpumpe mit Ausfädeleinrichtung

Title (fr)
Pompe tubulaire doté d'un dispositif de sortie de courant de circulation

Publication
EP 2924288 A3 20160127 (DE)

Application
EP 15153748 A 20150204

Priority
DE 102014104320 A 20140327

Abstract (en)
[origin: CN104948452A] A hose pump (1) for the conveyance of a fluid conducted in a hose (6), with several squeezing elements (3) and with a hose bed (2), which has a hose inlet (2a), a hose outlet (2b), a guide surface (2c), and a counter support (4), in which the hose (6) is placed lying on the guide surface (2c) and is pressed by the squeezing elements (3) against the counter support (4) for the conveyance of the fluid found in the hose (6) when the hose pump (1) is operated in a conveyance direction. The hose pump (1) has a guiding-out device for the automatic guiding of the hose out of the hose bed (2), and the guiding out of the hose takes place by means of the guiding-out device during the operation of the hose pump (1) opposite its conveyance direction. For the development of an as low-cost as possible but nevertheless reliable guiding-out device, an elevation (5), located on the hose outlet (2b) of the hose bed (2), is provided, which protrudes over the guide surface (2c) and via which the hose (6) is conducted.

IPC 8 full level
F04B 43/00 (2006.01); **F04B 43/08** (2006.01); **F04B 43/12** (2006.01)

CPC (source: EP RU US)
F04B 35/008 (2013.01 - EP US); **F04B 43/12** (2013.01 - RU); **F04B 43/1253** (2013.01 - US)

Citation (search report)

- [AD] DE 102010000594 B4 20120726 - ULRICH GMBH & CO KG [DE]
- [AD] DE 3326784 A1 19850214 - FRESENIUS AG [DE]
- [AD] DE 102007020573 A1 20081106 - FRESENIUS MEDICAL CARE DE GMBH [DE]
- [A] US 5387088 A 19950207 - KNAPP TRACEY E [US], et al
- [A] EP 1457677 A2 20040915 - CHF SOLUTIONS INC [US]

Cited by
DE202020101287U1; EP3232059A3; EP3879104A1; DE102020106372A1; US11639716B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 102014104320 B3 20150806; BR 102015004531 A2 20160524; BR 102015004531 B1 20221108; CN 104948452 A 20150930; CN 104948452 B 20170412; EP 2924288 A2 20150930; EP 2924288 A3 20160127; EP 2924288 B1 20170412; ES 2624687 T3 20170717; KR 20150112862 A 20151007; RU 2015110468 A 20161020; RU 2616731 C2 20170418; US 2015275888 A1 20151001; US 9874207 B2 20180123

DOCDB simple family (application)
DE 102014104320 A 20140327; BR 102015004531 A 20150227; CN 201510090220 A 20150227; EP 15153748 A 20150204; ES 15153748 T 20150204; KR 20150042105 A 20150326; RU 2015110468 A 20150325; US 201514663547 A 20150320