

Title (en)
SCREW SPINDLE PUMP

Title (de)
SCHRAUBENSPINDELPUMPE

Title (fr)
POMPE À VIS

Publication
EP 3099899 A1 20161207 (DE)

Application
EP 15705510 A 20150122

Priority
• DE 102014000846 A 20140127
• DE 202014006000 U 20140725
• EP 2015051196 W 20150122

Abstract (en)
[origin: WO2015110498A1] The invention relates to a screw spindle pump, having a housing (2) which surrounds a delivery chamber (5), having two spindles (7, 8), specifically a drive spindle (7) and an oppositely rotating running spindle (8), having a housing insert (6) which is arranged in the housing (2) and in which the spindles (7, 8) are accommodated, having at least one bearing element (13', 13'') which is connected to the housing insert (6) and on which bearings (12) of the spindles (7, 8) are arranged, and having at least one housing cover (14', 14'') which closes off a housing opening. It is an object of the invention to provide a screw spindle pump on which maintenance and inspection work can be carried out more easily and inexpensively. Said object is achieved by means of the invention in that the bearing element (13', 13'') forms a unit (15) with the housing insert (6) and the spindles (7, 8) accommodated therein, which unit can be removed from the housing (2) through the housing opening after the housing cover (14', 14'') has been removed.

IPC 8 full level
F01C 21/02 (2006.01); **F04C 2/16** (2006.01)

CPC (source: EP RU US)
F01C 21/007 (2013.01 - EP US); **F01C 21/02** (2013.01 - EP US); **F01C 21/10** (2013.01 - EP US); **F04C 2/16** (2013.01 - EP RU US); **F04C 15/00** (2013.01 - RU); **F04C 15/0088** (2013.01 - US); **F04C 18/16** (2013.01 - US); **F04C 29/02** (2013.01 - US); **F04C 2230/603** (2013.01 - US); **F04C 2230/604** (2013.01 - EP US); **F04C 2230/70** (2013.01 - EP US); **F04C 2230/80** (2013.01 - EP US); **F04C 2230/85** (2013.01 - EP US); **F04C 2240/20** (2013.01 - EP US); **F04C 2240/30** (2013.01 - US); **F04C 2240/50** (2013.01 - US); **F04C 2240/52** (2013.01 - EP US); **F04C 2240/802** (2013.01 - EP US)

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 202014006000 U1 20141022; CN 106062313 A 20161026; CN 113757110 A 20211207; DE 102014000846 A1 20150730; EP 3099899 A1 20161207; EP 3099899 B1 20191204; ES 2773292 T3 20200710; RU 2016134844 A 20180305; RU 2016134844 A3 20180821; RU 2684847 C2 20190415; US 10087928 B2 20181002; US 2017114785 A1 20170427; WO 2015110498 A1 20150730

DOCDB simple family (application)
DE 202014006000 U 20140725; CN 201580011068 A 20150122; CN 202111196743 A 20150122; DE 102014000846 A 20140127; EP 15705510 A 20150122; EP 2015051196 W 20150122; ES 15705510 T 20150122; RU 2016134844 A 20150122; US 201515114483 A 20150122