

Title (en)

SCREW PUMP WITH AT LEAST TWO PARTS

Title (de)

AUS WENIGSTENS ZWEI TEILEN GEBILDETE SCHRAUBENSPINDELPUMPE

Title (fr)

POMPE À VIS SE COMPOSANT D'AU MOINS DEUX PARTIES

Publication

EP 2961988 B1 20201007 (DE)

Application

EP 14723689 A 20140225

Priority

- DE 102013102031 A 20130301
- DE 2014000088 W 20140225

Abstract (en)

[origin: WO2014131393A1] The invention relates to a screw pump with at least two parts. The first part comprises a housing and at least one screw system which is arranged in the housing and which can be rotationally driven. It also comprises a pressure area arranged downstream of the screw system and at least one outlet opening which is brought into contact with the pressure area for guiding the pumping medium from the pressure area. The second part comprises at least one low pressure chamber arranged upstream of the screw system and at least one inlet opening for the pumping medium in the low pressure chamber. The first and the second parts are coupled together so they can assume at least two different relative positions, preferably so they can rotate.

IPC 8 full level

F01C 21/10 (2006.01); **F04C 2/16** (2006.01); **F04C 14/26** (2006.01); **F04C 15/06** (2006.01)

CPC (source: EP RU US)

F01C 21/10 (2013.01 - EP US); **F04C 2/16** (2013.01 - EP US); **F04C 15/06** (2013.01 - EP US); **F01C 21/10** (2013.01 - RU); **F04C 2/16** (2013.01 - RU); **F04C 14/26** (2013.01 - EP RU US); **F04C 15/06** (2013.01 - RU)

Cited by

DE102022131167A1; WO2024110168A1

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

DOCDB simple family (publication)

DE 102013102031 A1 20140904; **DE 102013102031 B4 20160512**; AR 094938 A1 20150909; BR 112015020824 A2 20170718; BR 112015020824 B1 20220621; CN 105143675 A 20151209; CN 105143675 B 20180112; EP 2961988 A1 20160106; EP 2961988 B1 20201007; JP 2016508575 A 20160322; JP 6101367 B2 20170322; KR 101788952 B1 20171020; KR 20150121221 A 20151028; RU 2015141528 A 20170406; RU 2638706 C2 20171215; US 2015369239 A1 20151224; US 9759214 B2 20170912; WO 2014131393 A1 20140904

DOCDB simple family (application)

DE 102013102031 A 20130301; AR P140100652 A 20140228; BR 112015020824 A 20140225; CN 201480010046 A 20140225; DE 2014000088 W 20140225; EP 14723689 A 20140225; JP 2015559423 A 20140225; KR 20157026977 A 20140225; RU 2015141528 A 20140225; US 201514837028 A 20150827