

Title (en)

ROTARY PISTON PUMP, METHOD FOR SECURING ROTARY PISTONS OF A ROTARY PISTON PUMP AND METHOD FOR REMOVING ROTARY PISTONS OF A ROTARY PISTON PUMP

Title (de)

DREHKOLBENPUMPE, VERFAHREN ZUR FIXIERUNG VON DREHKOLBEN EINER DREHKOLBENPUMPE UND VERFAHREN ZUR DEMONTAGE VON DREHKOLBEN EINER DREHKOLBENPUMPE

Title (fr)

POMPE À PISTONS ROTATIFS, PROCÉDÉ DE FIXATION DE PISTONS ROTATIFS D'UNE POMPE À PISTONS ROTATIFS ET PROCÉDÉ DE DÉMONTAGE DE PISTONS ROTATIFS D'UNE POMPE À PISTONS ROTATIFS

Publication

EP 3224478 A1 20171004 (DE)

Application

EP 15831040 A 20151120

Priority

- DE 102014117166 A 20141124
- DE 2015000552 W 20151120

Abstract (en)

[origin: WO2016082814A1] The invention relates to a rotary piston pump having at least two counter-rotating rotary pistons which are arranged in a pump space on drive shafts. The rotary pistons each have a recess for the drive shafts. The respective drive shaft is arranged and secured with an end region in the recess of the respective rotary piston. According to the invention, a diameter of the drive shafts can be widened elastically in the end region. In an operating state in which the rotary pistons are arranged on the respective drive shafts, a friction-fit is established between the respective recess of the rotary piston and the end region of the respective drive shaft. The invention also relates to a method for securing rotary pistons in a rotary piston pump and to a method for removing rotary pistons of an above-described rotary piston pump.

IPC 8 full level

F04C 2/12 (2006.01); **F04C 15/00** (2006.01)

CPC (source: CN EP KR US)

F04C 2/126 (2013.01 - CN EP KR US); **F04C 15/0061** (2013.01 - CN EP KR); **F04C 15/0073** (2013.01 - CN EP KR US); **F04C 15/0076** (2013.01 - CN EP KR US); **F04C 15/0061** (2013.01 - US); **F04C 2230/60** (2013.01 - CN EP KR US); **F04C 2230/70** (2013.01 - CN EP KR US)

Citation (search report)

See references of WO 2016082814A1

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 102014117166 A1 20160525; **DE 102014117166 B4 20160707**; CN 107002669 A 20170801; CN 107002669 B 20191011; EP 3224478 A1 20171004; EP 3224478 B1 20181031; JP 2018500493 A 20180111; JP 6564458 B2 20190821; KR 20170074937 A 20170630; RU 2017122217 A 20181226; RU 2017122217 A3 20181226; US 10539136 B2 20200121; US 2017306949 A1 20171026; WO 2016082814 A1 20160602

DOCDB simple family (application)

DE 102014117166 A 20141124; CN 201580063699 A 20151120; DE 2015000552 W 20151120; EP 15831040 A 20151120; JP 2017527746 A 20151120; KR 20177013620 A 20151120; RU 2017122217 A 20151120; US 201515516309 A 20151120