

Title (en)
PISTON FOR A ROTARY PISTON PUMP

Title (de)
KOLBEN FÜR EINE DREHKOLBENPUMPE

Title (fr)
PISTON POUR POMPE ROTATIVE

Publication
EP 3408539 B1 20240501 (DE)

Application
EP 17702831 A 20170127

Priority
• DE 202016100419 U 20160128
• EP 2017051853 W 20170127

Abstract (en)
[origin: CA3013104A1] The invention relates to a rotary piston pump comprising a housing with a housing interior, an inlet opening, and an outlet opening; a first rotary piston which is mounted within the housing interior in a rotational manner about a first rotational axis; and a second rotary piston which is mounted within the housing interior in a rotational manner about a second rotational axis. The first rotary piston and the second rotary piston engage into each other in a region between the first and the second axis and displace liquid. The first rotary piston has a frame assembly which comprises multiple mutually spaced plates and is at least partly filled and coated with a polymer material.

IPC 8 full level
F04C 2/12 (2006.01); **F04C 2/08** (2006.01); **F04C 2/16** (2006.01); **F04C 15/00** (2006.01); **F04C 18/08** (2006.01); **F04C 18/12** (2006.01); **F04C 18/16** (2006.01)

CPC (source: EP KR US)
F04C 2/084 (2013.01 - EP KR US); **F04C 2/126** (2013.01 - EP KR US); **F04C 2/16** (2013.01 - EP KR US); **F04C 15/0015** (2013.01 - EP KR US); **F04C 15/0023** (2013.01 - EP KR US); **F04C 18/084** (2013.01 - EP KR US); **F04C 18/126** (2013.01 - EP KR US); **F04C 18/16** (2013.01 - EP KR US); **F04C 2230/23** (2013.01 - EP KR US); **F04C 2240/20** (2013.01 - EP KR US)

Citation (examination)
US 3918838 A 19751111 - MOODY JR HAROLD W, et al

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 202016100419 U1 20170502; AU 2017213147 A1 20180816; AU 2017213147 B2 20210805; BR 112018015305 A2 20181218; CA 3013104 A1 20170803; CN 108700063 A 20181023; EP 3408539 A1 20181205; EP 3408539 B1 20240501; EP 3408539 C0 20240501; JP 2019503454 A 20190207; KR 20180123019 A 20181114; MX 2018009213 A 20190523; MY 198166 A 20230808; US 10982671 B2 20210420; US 2019048872 A1 20190214; WO 2017129794 A1 20170803

DOCDB simple family (application)
DE 202016100419 U 20160128; AU 2017213147 A 20170127; BR 112018015305 A 20170127; CA 3013104 A 20170127; CN 201780015479 A 20170127; EP 17702831 A 20170127; EP 2017051853 W 20170127; JP 2018539094 A 20170127; KR 20187024621 A 20170127; MX 2018009213 A 20170127; MY PI2018001364 A 20170127; US 201716073520 A 20170127