

Title (en)
A ROTARY PISTON PUMP

Title (de)
ROTATIONSKOLBENPUMPE

Title (fr)
POMPE A PISTON ROTATIF

Publication
EP 3179107 A1 20170614 (EN)

Application
EP 16193215 A 20161011

Priority
EE U201500075 U 20151029

Abstract (en)
Invention relates to a rotary piston pump comprising a housing (1, 2) with inlet and outlet orifices for the pumped fluid, inside the spherical piston chamber the two rotor halves (9, 10) of the rotary piston are connected together by a universal-joint spider, where rotation axes of said rotor halves are at an angle in relation to each other and where the universal-joint spider is included in the disk element (13) between the rotor halves (9, 10). The spider arms (15) of the universal-joint are formed by semi-axles (18), which are connected to the spherical part in the centre of the disk element (13).

IPC 8 full level
F04C 3/06 (2006.01); **F04C 9/00** (2006.01)

CPC (source: EA EP)
F04C 3/06 (2013.01 - EA EP); **F04C 9/00** (2013.01 - EA); **F04C 9/005** (2013.01 - EP)

Citation (applicant)
• US 2204760 A 19400618 - OLE JENSEN
• US 2727465 A 19551220 - ANDRE DUTREY
• US 5171142 A 19921215 - PROGLYADA LEONID P [SU]
• WO 2009053764 A1 20090430 - NAGY ZOLTAN [HU], et al

Citation (search report)
• [XDI] WO 2009053764 A1 20090430 - NAGY ZOLTAN [HU], et al
• [A] US 5199864 A 19930406 - STECKLEIN GARY L [US]
• [A] WO 8400997 A1 19840315 - KEISLER D MICHAEL
• [A] GB 2115490 A 19830907 - SZIRMAY ZOLTAN, 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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3179107 A1 20170614; EP 3179107 B1 20181219; EA 031891 B1 20190329; EA 201691961 A1 20170531; EE 01355 U1 20160516

DOCDB simple family (application)
EP 16193215 A 20161011; EA 201691961 A 20161027; EE U201500075 U 20151029