

Title (en)

PROGRESSIVE CAVITY PUMP, PIN JOINT, AND METHOD FOR PRODUCING A PIN JOINT

Title (de)

EXZENTERSCHNECKENPUMPE, BOLZENGelenK UND VERFAHREN ZUM HERSTELLEN EINES BOLZENGelenKS

Title (fr)

POMPE À VIS EXCENTRIQUE, ACCOUPLEMENT À PIVOT ET PROCÉDÉ DE PRODUCTION D'UN ACCOUPLEMENT À PIVOT

Publication

EP 3092410 A1 20161116 (DE)

Application

EP 14850115 A 20141212

Priority

- DE 102014100138 A 20140108
- DE 2014000636 W 20141212

Abstract (en)

[origin: WO2015104012A1] Disclosed is a progressive cavity pump (1) comprising a pin joint (7), a stator (3), a rotor (4), and a drive shaft (5), wherein a coupling rod (6) is arranged between the rotor (4) and the drive shaft (5) in a universally jointed manner by means of two pin joints (7). Each pin joint (7) comprises a joint head (10), which is formed by an inner joint part (8) and an outer joint part (9), wherein the inner joint part (8) and the outer joint part (9) each have a diametric bore (11, 12, 12*) through which a pin (15*) is guided. The pin (15*) consists of a base part (16*), at the free ends of which respective head parts (17*, 18*) that enlarge the cross-section of the pin are arranged and fastened. According to the invention, a sealing element (32) is arranged in a boundary region between the base part (16*) and at least one head part (18*). Disclosed are also a pin joint (7) for a progressive cavity pump and a method for producing a pin joint for a progressive cavity pump.

IPC 8 full level

F04C 2/107 (2006.01); **F04C 15/00** (2006.01)

CPC (source: CN EP KR)

F04C 2/1071 (2013.01 - CN); **F04C 2/1073** (2013.01 - EP KR); **F04C 15/0061** (2013.01 - EP KR); **F04C 15/0073** (2013.01 - CN); **F04C 2240/805** (2013.01 - CN EP KR)

Citation (search report)

See references of WO 2015104012A1

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 102014100138 B3 20150326; AU 2014377061 A1 20160721; AU 2014377061 B2 20170420; CN 105849409 A 20160810; CN 105849409 B 20171027; EP 3092410 A1 20161116; EP 3092410 B1 20171101; ES 2657984 T3 20180307; JP 2017503961 A 20170202; JP 6263632 B2 20180117; KR 20160107229 A 20160913; WO 2015104012 A1 20150716; ZA 201604466 B 20170830

DOCDB simple family (application)

DE 102014100138 A 20140108; AU 2014377061 A 20141212; CN 201480071404 A 20141212; DE 2014000636 W 20141212; EP 14850115 A 20141212; ES 14850115 T 20141212; JP 2016545306 A 20141212; KR 20167021226 A 20141212; ZA 201604466 A 20160630