

Title (en)

GAS PUMP WITH PRESSURE RELIEF FOR REDUCING START-UP TORQUE

Title (de)

GASPUMPE MIT DRUCKENTLASTUNG ZUR REDUZIERUNG DES ANFAHRDREHMOMENTS

Title (fr)

POMPE À GAZ AVEC LIMITEUR DE PRESSION POUR LA RÉDUCTION DU COUPLE DE DÉMARRAGE

Publication

EP 3421802 B1 20220302 (DE)

Application

EP 18187866 A 20140113

Priority

- DE 102013200410 A 20130114
- EP 14150971 A 20140113

Abstract (en)

[origin: EP2754896A1] The pump has a delivery device (10) moveable within a delivery chamber (3) for delivering gas, and a pressing device (30) for pressing housing parts (1, 2) against each other with a pressing force such that sealing surfaces (6, 7) abut each other and together form a sealing joint that partially surrounds the delivery chamber in order to seal off the delivery chamber. One of the housing parts is movable relative to the other housing part against the pressing force in order to widen the sealing joint to form a relieving gap such that liquid in the delivery chamber escapes through the gap.

IPC 8 full level

F04B 53/16 (2006.01); **F04C 15/00** (2006.01); **F04C 18/34** (2006.01); **F04C 18/344** (2006.01); **F04C 25/02** (2006.01); **F04C 27/02** (2006.01); **F04C 28/06** (2006.01); **F04C 28/26** (2006.01)

CPC (source: EP US)

F04B 53/16 (2013.01 - EP US); **F04C 15/0088** (2013.01 - US); **F04C 18/34** (2013.01 - US); **F04C 18/3442** (2013.01 - EP US); **F04C 25/02** (2013.01 - EP US); **F04C 27/02** (2013.01 - US); **F04C 28/06** (2013.01 - EP US); **F04C 28/265** (2013.01 - EP US)

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)

EP 2754896 A1 20140716; **EP 2754896 B1 20180822**; CN 103925189 A 20140716; CN 103925189 B 20180119; DE 102013200410 A1 20140717; DE 102013200410 B4 20171207; EP 3421802 A1 20190102; EP 3421802 B1 20220302; US 11506204 B2 20221122; US 2014199199 A1 20140717

DOCDB simple family (application)

EP 14150971 A 20140113; CN 201410014323 A 20140113; DE 102013200410 A 20130114; EP 18187866 A 20140113; US 201414151129 A 20140109