

Title (en)

Gas pump with pressure relief for reducing start-up torque

Title (de)

Gaspumpe mit Druckentlastung zur Reduzierung des Anfahr Drehmoments

Title (fr)

Pompe à gaz avec détente pour la réduction du couple de démarrage

Publication

EP 2754896 B1 20180822 (DE)

Application

EP 14150971 A 20140113

Priority

DE 102013200410 A 20130114

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 join 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 join to form a relieving gap such that liquid in the delivery chamber escapes through the gap.

IPC 8 full level

F04C 18/344 (2006.01); **F04C 25/02** (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)

Citation (examination)

- US 3865515 A 19750211 - ALLEN CLIFFORD H
- EP 2743506 A2 20140618 - SCHWÄBISCHE HÜTTENWERKE AUTOMOTIVE GMBH [DE]

Cited by

CN114750976A; EP3103960A1; EP3081744A1; US10544784B2; US10087929B2; WO2019148440A1

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)

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DOCDB simple family (application)

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