

Title (en)
PUMP FOR DELIVERING A LIQUID

Title (de)
PUMPE ZUR FÖRDERUNG EINER FLÜSSIGKEIT

Title (fr)
POMPE DE DÉBIT DE LIQUIDE

Publication
EP 3008342 A1 20160420 (DE)

Application
EP 14728543 A 20140604

Priority
• DE 102013106170 A 20130613
• EP 2014061546 W 20140604

Abstract (en)
[origin: WO2014198597A1] A pump (1) for delivering a liquid, having a pump housing (2) with at least one inlet (3) and at least one outlet (4), wherein, on the pump housing (2), there is arranged an eccentric (5) which, with an axis (6), is rotatable relative to the pump housing (2), and wherein a deformable element (7) is arranged between the pump housing (2) and the eccentric (5), wherein the deformable element (7) delimits at least one delivery path (8) from the at least one inlet (3) to the at least one outlet (4) and forms at least one displaceable seal (9) of the delivery path (8), which displaceable seal partitions off at least one closed pump volume (10) in the delivery path (8), wherein, by means of a movement of the eccentric (5), the at least one displaceable seal (9) can be displaced in a delivery direction (11) from the inlet (3) to the outlet (4) for the purpose of delivering the liquid along the delivery path (8), wherein the inlet (3) and the outlet (4) have an angular spacing (13) to one another in a circumferential direction (12) about the axis (6), and the seal (9) spans, in the circumferential direction (12), an angle segment (14) in which the delivery path (8) is closed, wherein the angle segment (14) is larger than the angular spacing (13).

IPC 8 full level
F04B 43/12 (2006.01); **F01N 3/20** (2006.01)

CPC (source: EP US)
F01N 3/2066 (2013.01 - US); **F01N 3/208** (2013.01 - EP US); **F04B 43/123** (2013.01 - EP US); **F04C 5/00** (2013.01 - EP US); **F01N 2610/02** (2013.01 - US); **F01N 2610/1433** (2013.01 - EP US); **F04C 2210/1083** (2013.01 - EP US); **Y02A 50/20** (2017.12 - EP US); **Y02T 10/12** (2013.01 - EP US)

Citation (search report)
See references of WO 2014198597A1

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)
WO 2014198597 A1 20141218; CN 105492770 A 20160413; DE 102013106170 A1 20141231; EP 3008342 A1 20160420; JP 2016521829 A 20160725; KR 20160017091 A 20160215; US 2016138589 A1 20160519

DOCDB simple family (application)
EP 2014061546 W 20140604; CN 201480044006 A 20140604; DE 102013106170 A 20130613; EP 14728543 A 20140604; JP 2016518923 A 20140604; KR 20167000821 A 20140604; US 201414898044 A 20140604