

Title (en)
PUMP, IN PARTICULAR A HIGH-PRESSURE FUEL PUMP

Title (de)
PUMPE, INSBESONDERE KRAFTSTOFFHOCHDRUCKPUMPE

Title (fr)
POMPE, EN PARTICULIER POMPE À CARBURANT HAUTE PRESSION

Publication
EP 3234358 A1 20171025 (DE)

Application
EP 15787969 A 20151027

Priority

- DE 102014225982 A 20141216
- EP 2015074890 W 20151027

Abstract (en)
[origin: WO2016096216A1] Pump, in particular a high-pressure fuel pump, having at least one pump element (10) which has a pump piston (12) which is driven in a reciprocating movement by way of a drive shaft (14) with at least one cam (16; 160) and delimits a pump working chamber (24) which can be filled with delivery medium via an inlet valve (26) during the suction stroke of the pump piston (12). The at least one cam (60; 160) of the drive shaft (14) is a multiple cam with a plurality of cam delivery regions (16a, 16b) for the delivery strokes of the pump piston (12), or a plurality of single or multiple cams (160) with in each case at least one cam delivery region (160a, 160b) for the delivery strokes of the pump piston (12) are provided which are arranged next to one another in the direction of the rotational axis (15) of the drive shaft (14). The cam profiles of the cam delivery regions (16a, 16b) of the at least one multiple cam (16) or the cam profiles of the cam delivery regions (160a, 160b) of the single cams (160) are of different configuration.

IPC 8 full level
F02M 59/06 (2006.01); **F02M 59/10** (2006.01); **F04B 1/04** (2006.01); **F04B 1/06** (2006.01); **F04B 7/00** (2006.01); **F04B 49/06** (2006.01); **F04B 49/24** (2006.01)

CPC (source: CN EP KR US)
F02M 59/06 (2013.01 - CN EP KR US); **F02M 59/102** (2013.01 - CN EP KR US); **F02M 59/466** (2013.01 - CN); **F04B 1/0413** (2013.01 - CN EP KR US); **F04B 1/066** (2013.01 - CN EP KR US); **F04B 7/0076** (2013.01 - EP KR US); **F04B 9/042** (2013.01 - EP KR US); **F04B 49/06** (2013.01 - CN); **F04B 49/065** (2013.01 - EP KR US); **F04B 49/22** (2013.01 - CN); **F04B 49/243** (2013.01 - EP KR US)

Citation (search report)
See references of WO 2016096216A1

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 102014225982 A1 20160616; CN 107002614 A 20170801; CN 107002614 B 20191203; EP 3234358 A1 20171025; JP 2018500495 A 20180111; JP 2019090421 A 20190613; KR 20170096143 A 20170823; US 10125749 B2 20181113; US 2017342969 A1 20171130; WO 2016096216 A1 20160623

DOCDB simple family (application)
DE 102014225982 A 20141216; CN 201580068162 A 20151027; EP 15787969 A 20151027; EP 2015074890 W 20151027; JP 2017528171 A 20151027; JP 2019025677 A 20190215; KR 20177019609 A 20151027; US 201515535756 A 20151027