

Title (en)  
PUMP

Title (de)  
PUMPE

Title (fr)  
POMPE

Publication  
**EP 3081744 A1 20161019 (DE)**

Application  
**EP 16164901 A 20160412**

Priority  
DE 102015105928 A 20150417

Abstract (en)  
[origin: US2016305427A1] A pump including a rotor; a first housing part and a second housing part, between which the rotor is arranged such that it can be rotated about a rotational axis relative to the first and second housing part; at least one positioning element which positions the second housing part with respect to its angular position about the rotational axis relative to the first housing part; and a spring, wherein the second housing part is arranged between the spring and the rotor, wherein the spring is fastened to the at least one positioning element or the second housing part.

Abstract (de)  
Pumpe (1), umfassend: - einen Rotor (4), - ein erstes Gehäuseteil (2) und ein zweites Gehäuseteil (3), zwischen denen der Rotor (4) um eine Drehachse und relativ zu dem ersten und zweiten Gehäuseteil (2, 3) drehbar angeordnet ist, - mindestens ein Positionierelement (6), welches das zweite Gehäuseteil (3) bezüglich seiner Winkelposition um die Drehachse relativ zu dem ersten Gehäuseteil (2) positioniert, und - eine Feder (5), wobei das zweite Gehäuseteil (3) zwischen der Feder (5) und dem Rotor (4) angeordnet ist.

IPC 8 full level  
**F01C 21/10** (2006.01); **F04C 2/344** (2006.01)

CPC (source: CN EP US)  
**F01C 21/108** (2013.01 - EP US); **F04C 2/3446** (2013.01 - CN EP US); **F04C 2/3448** (2013.01 - US); **F04C 15/00** (2013.01 - CN US); **F04C 15/0019** (2013.01 - CN); **F04C 15/0026** (2013.01 - CN); **F04C 15/0073** (2013.01 - CN); **F01C 19/005** (2013.01 - EP US); **F04C 2210/206** (2013.01 - US); **F04C 2230/603** (2013.01 - US); **F04C 2240/20** (2013.01 - US); **F04C 2240/30** (2013.01 - US)

Citation (applicant)  
WO 2013185751 A1 20131219 - IXETIC BAD HOMBURG GMBH [DE]

Citation (search report)  
• [XDYI] WO 2013185751 A1 20131219 - IXETIC BAD HOMBURG GMBH [DE]  
• [X] US 3207077 A 19650921 - ZEIGLER PHILIP B, et al  
• [Y] EP 2754896 A1 20140716 - SHW AUTOMOTIVE GMBH [DE]  
• [A] DE 2423773 A1 19751127 - DAIMLER BENZ AG  
• [XI] DE 102013209877 A1 20141204 - MAHLE INT GMBH [DE]

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EP4166752A1; DE102016109335A1; DE102016109335B4; US11815102B2

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)  
**EP 3081744 A1 20161019; EP 3081744 B1 20210811**; CN 106050646 A 20161026; CN 106050646 B 20191206;  
DE 102015105928 A1 20161020; DE 102015105928 B4 20180517; US 10087929 B2 20181002; US 2016305427 A1 20161020

DOCDB simple family (application)  
**EP 16164901 A 20160412**; CN 201610232347 A 20160414; DE 102015105928 A 20150417; US 201615130105 A 20160415