

Title (en)
Rotation displacement pump

Title (de)
Rotationsverdrängerpumpe

Title (fr)
Pompe volumétrique rotative

Publication
EP 2208890 A3 20111130 (DE)

Application
EP 10150861 A 20100115

Priority
DE 202009000690 U 20090116

Abstract (en)
[origin: EP2208890A2] The pump (2) has an accommodating chamber (4) in a pump housing (3), and rotary displacement elements (5, 6) e.g. hypotrochoid housing (10) and star-shaped internal rotary displacement element (15), accommodated in the chamber. A bypass enables a reverse flow of a pumped medium from an outlet region (27) into an inlet region (26) of the chamber. The elements and/or a swivel plate, connected with the elements, have an opposing surface limiting the bypass, where an opposing surface normal of the surface has a component aligned opposite to a periphery normal of a periphery (21) of the elements.

IPC 8 full level
F04C 15/00 (2006.01); **F04C 2/10** (2006.01)

CPC (source: EP US)
F04C 2/102 (2013.01 - EP US); **F04C 14/26** (2013.01 - EP US); **F04C 15/0042** (2013.01 - EP US); **F04C 2240/51** (2013.01 - EP US)

Citation (search report)

- [X] DE 3909319 A1 19891026 - AISIN SEIKI [JP]
- [IA] US 6769889 B1 20040803 - RANEY MICHAEL RAYMOND [US], et al
- [I] DE 102007030528 A1 20090108 - DAIMLER AG [DE]
- [I] US 2339966 A 19440125 - UNGAR GUSTAVE A
- [A] US 2005069447 A1 20050331 - SCHNEIDER WILLI [DE]
- [A] DE 2150070 A1 19720413 - CURTISS WRIGHT CORP

Designated contracting state (EPC)
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 SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
DE 202009000690 U1 20090409; EP 2208890 A2 20100721; EP 2208890 A3 20111130; US 2010183454 A1 20100722

DOCDB simple family (application)
DE 202009000690 U 20090116; EP 10150861 A 20100115; US 68723010 A 20100114