

Title (en)
PUMP

Title (de)
PUMPE

Title (fr)
POMPE

Publication
EP 2638296 B1 20160629 (DE)

Application
EP 11779687 A 20111110

Priority
• DE 102010043727 A 20101110
• EP 2011069810 W 20111110

Abstract (en)
[origin: WO2012062839A1] A liquid pump has a rotor in a pump housing which has a pump chamber, a pump base, a pump-chamber wall and a cover. The rotor rotates just above the pump base, the pump-chamber wall being provided around the outside of and slightly spaced apart from the rotor and having a heating means thereon. An inlet to the rotor is provided centrally in the axial direction towards the rotor and an outlet from the pump housing is provided externally at the periphery of the pump-chamber wall. Blade-like guiding elements which are integrally injection-moulded thereon are arranged on the pump base, radially outside the impeller.

IPC 8 full level
F04D 29/42 (2006.01); **F04D 29/44** (2006.01); **F04D 29/58** (2006.01)

CPC (source: EP US)
F04D 7/00 (2013.01 - US); **F04D 29/426** (2013.01 - EP US); **F04D 29/445** (2013.01 - EP US); **F04D 29/588** (2013.01 - EP US)

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)
DE 102010043727 A1 20120510; CN 103477085 A 20131225; CN 103477085 B 20160907; EP 2638296 A1 20130918;
EP 2638296 B1 20160629; PL 2638296 T3 20161230; US 2013287561 A1 20131031; WO 2012062839 A1 20120518

DOCDB simple family (application)
DE 102010043727 A 20101110; CN 201180054506 A 20111110; EP 11779687 A 20111110; EP 2011069810 W 20111110;
PL 11779687 T 20111110; US 201113884568 A 20111110