

Title (en)  
CENTRIFUGAL PUMP

Title (de)  
ZENTRIFUGALPUMPE

Title (fr)  
POMPE CENTRIFUGE

Publication  
**EP 3358197 A4 20181003 (EN)**

Application  
**EP 15905222 A 20151203**

Priority  
• CN 201510640802 A 20150929  
• CN 2015096349 W 20151203

Abstract (en)  
[origin: EP3358197A1] A centrifugal pump (100) comprises a pump housing (1), a heating device (22), a flow guide member (3) and an impeller (4). The pump housing (1) is provided with a heating chamber (11) and a pump chamber (12) in communication with the heating chamber (11) therein. The pump housing (1) is provided with an inlet (130) in communication with the heating chamber (11) and an outlet (140) in communication with the pump chamber (12). The heating device (22) is disposed on the pump housing (1). The flow guide member (3) is disposed within the heating chamber (11). The flow guide member (3) defines spreading channels guiding fluids entering through the inlet (130) to spread outwards along a radial direction of the heating device (22) and converging channels guiding the spread fluids to converge inwards along the radial direction of the heating device (22) to the pump chamber (12) in the heating chamber (11). The impeller (4) is disposed within the pump chamber (12) and guides the fluids converged in the pump chamber (12) to the outlet (140). The centrifugal pump structure is compact and small-sized, thus having a high space utilization rate and also good hydraulic performance.

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

CPC (source: EP US)  
**F04D 29/08** (2013.01 - US); **F04D 29/42** (2013.01 - EP US); **F04D 29/426** (2013.01 - EP US); **F04D 29/4273** (2013.01 - EP US); **F04D 29/44** (2013.01 - US); **F04D 29/445** (2013.01 - EP US); **F04D 29/58** (2013.01 - EP US); **F04D 29/5866** (2013.01 - US); **F04D 29/588** (2013.01 - EP US); **F05D 2250/51** (2013.01 - EP)

Citation (search report)  
• [X] EP 1787567 A2 20070523 - IRCA SPA [IT]  
• [A] CN 204267377 U 20150415 - ZHEJIANG OULONG PUMP CO LTD  
• [A] JP 4951418 B2 20120613  
• See references of WO 2017054310A1

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 3358197 A1 20180808**; **EP 3358197 A4 20181003**; CN 105156358 A 20151216; CN 205208893 U 20160504; US 2018283399 A1 20181004; WO 2017054310 A1 20170406

DOCDB simple family (application)  
**EP 15905222 A 20151203**; CN 2015096349 W 20151203; CN 201510640802 A 20150929; CN 201520962954 U 20151127; US 201515763844 A 20151203