

Title (en)

PUMPING APPARATUS WITH A FLOW GUIDING ELEMENT

Title (de)

PUMPVORRICHTUNG MIT EINEM STRÖMUNGSLEITELEMENT

Title (fr)

DISPOSITIF DE POMPE AYANT UN ÉLÉMENT DE GUIDAGE D'ÉCOULEMENT

Publication

**EP 2932105 B1 20210421 (DE)**

Application

**EP 13795499 A 20131126**

Priority

- EP 12197150 A 20121214
- EP 2013074664 W 20131126
- EP 13795499 A 20131126

Abstract (en)

[origin: WO2014090559A2] The invention relates to a pump device comprising an impeller (10a; 10c), which is mounted to rotate about a rotational axis (11a; 11b; 11c) in order to convey a pumpable medium, an inlet housing (12a), which opens out into a priming region (13a) upstream of the impeller (10a; 10c), and comprising a flow guiding element (14a; 14b), which is arranged at least partially inside the priming region (13a) and which is designed to guide the medium flowing towards the impeller (10a; 10c). According to the invention, the at least one flow guiding element (14a; 4b; 14c, 15c) is designed at least partially as an annular segment.

IPC 8 full level

**F04D 29/42** (2006.01); **F04D 29/44** (2006.01); **F04D 29/68** (2006.01)

CPC (source: EP US)

**F04D 3/005** (2013.01 - US); **F04D 19/002** (2013.01 - US); **F04D 29/181** (2013.01 - US); **F04D 29/32** (2013.01 - US);  
**F04D 29/4273** (2013.01 - EP US); **F04D 29/448** (2013.01 - EP US); **F04D 29/54** (2013.01 - US); **F04D 29/64** (2013.01 - US);  
**F04D 29/688** (2013.01 - EP US); **F05D 2250/51** (2013.01 - EP)

Citation (examination)

JP 2007023938 A 20070201 - EBARA CORP

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)

**WO 2014090559 A2 20140619**; **WO 2014090559 A3 20140925**; BR 112015012357 A2 20170711; CN 104995411 A 20151021;  
CN 104995411 B 20181106; EP 2932105 A2 20151021; EP 2932105 B1 20210421; ES 2866725 T3 20211019; IN 3297DEN2015 A 20151009;  
US 10634165 B2 20200428; US 2015300371 A1 20151022

DOCDB simple family (application)

**EP 2013074664 W 20131126**; BR 112015012357 A 20131126; CN 201380062488 A 20131126; EP 13795499 A 20131126;  
ES 13795499 T 20131126; IN 3297DEN2015 A 20150420; US 201314649459 A 20131126