

Title (en)

AN IMPELLER FOR A CENTRIFUGAL PUMP, A CENTRIFUGAL PUMP AND A USE THEREOF

Title (de)

FLÜGELRAD FÜR EINE ZENTRIFUGALPUMPE, ZENTRIFUGALPUMPE UND VERWENDUNG DAVON

Title (fr)

ROTOR POUR POMPE CENTRIFUGE, POMPE CENTRIFUGE ET UTILISATION DE CELLE-CI

Publication

**EP 2940307 B1 20170208 (EN)**

Application

**EP 15162956 A 20150409**

Priority

- EP 14165689 A 20140423
- EP 15162956 A 20150409

Abstract (en)

[origin: EP2940307A1] The present invention relates to an impeller (40) for a centrifugal pump, a centrifugal pump and a use thereof. The present invention relates especially to a novel closed impeller (40) structure for a centrifugal pump. The impeller (40) is characterized by pump-out vanes (48) on the rear shroud and pump-out vanes (50) on the front shroud (44). The front pump-out vanes (50) are dimensioned according to a specific formula. The centrifugal pump utilizing the impeller (40) of the present invention is suitable for pumping both clean liquids and solids-containing liquids like for instance fibrous suspensions of pulp and paper or board industry.

IPC 8 full level

**F04D 7/04** (2006.01); **F04D 29/22** (2006.01); **F04D 31/00** (2006.01)

CPC (source: EP RU US)

**F04D 7/04** (2013.01 - EP US); **F04D 7/045** (2013.01 - RU); **F04D 29/2216** (2013.01 - EP RU US); **F04D 29/2266** (2013.01 - EP US); **F04D 31/00** (2013.01 - EP US)

Cited by

EP3712439A1; CN111720346A; US11300134B2; WO2018049436A3

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)

**EP 2940307 A1 20151104; EP 2940307 B1 20170208**; BR 102015007960 A2 20160426; CN 105003458 A 20151028; CN 105003458 B 20180713; RU 2015112285 A 20161020; RU 2015112285 A3 20181029; RU 2688066 C2 20190517; US 2015308446 A1 20151029

DOCDB simple family (application)

**EP 15162956 A 20150409**; BR 102015007960 A 20150409; CN 201510162991 A 20150408; RU 2015112285 A 20150403; US 201514680212 A 20150407