

Title (en)

IMPELLER, CENTRIFUGAL FLUID MACHINE, AND FLUID DEVICE

Title (de)

LAUFRAD, FLÜSSIGKEITSSCHLEUDERMASCHINE UND FLÜSSIGKEITSVORRICHTUNG

Title (fr)

ROTOR, MACHINE CENTRIFUGE POUR FLUIDE, ET DISPOSITIF DE FLUIDE

Publication

EP 3214315 A4 20180620 (EN)

Application

EP 15854757 A 20150518

Priority

- JP 2014218191 A 20141027
- JP 2015064175 W 20150518

Abstract (en)

[origin: EP3214315A1] An impeller is provided with: a disk rotating about an axis; and a plurality of blades (23) provided on the disk at intervals in a circumferential direction about the axis. Thicknesses of the blades (23) gradually decrease from a disk side toward a tip side, and a decrease rate of the thicknesses gradually decreases from the disk side toward the tip side.

IPC 8 full level

F04D 29/24 (2006.01); **F04D 29/28** (2006.01); **F04D 29/30** (2006.01)

CPC (source: EP US)

F04D 25/02 (2013.01 - US); **F04D 29/242** (2013.01 - EP US); **F04D 29/284** (2013.01 - EP US); **F04D 29/30** (2013.01 - EP US); **F05D 2240/301** (2013.01 - EP US)

Citation (search report)

- [X1] US 2006067829 A1 20060330 - VRBAS GARY D [US], et al
- [X1] WO 2014016084 A1 20140130 - CONTINENTAL AUTOMOTIVE GMBH [DE] & US 2015204195 A1 20150723 - KLAUS MICHAEL [DE], et al
- [X1] WO 2009065030 A2 20090522 - BORGWARNER INC [US], et al
- See references of WO 2016067666A1

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 3214315 A1 20170906; **EP 3214315 A4 20180620**; CN 106574627 A 20170419; JP 2016084751 A 20160519; US 2017306971 A1 20171026; WO 2016067666 A1 20160506

DOCDB simple family (application)

EP 15854757 A 20150518; CN 201580043827 A 20150518; JP 2014218191 A 20141027; JP 2015064175 W 20150518; US 201515513706 A 20150518