

Title (en)
IMPELLER AND ROTARY MACHINE

Title (de)
LAUFRAD UND DREHMASCHINE

Title (fr)
IMPULSEUR, ET MACHINE TOURNANTE

Publication
EP 3211241 A4 20171122 (EN)

Application
EP 15865836 A 20151009

Priority
• JP 2014245157 A 20141203
• JP 2015078778 W 20151009

Abstract (en)
[origin: EP3211241A1] This impeller is equipped with: an impeller body (31) for rotating around an axis (O) along with a rotating shaft (2), formed from a resin and shaped as a disk; compressor blades (25) provided on a hub surface (31a) of the impeller body (31); and a reinforcing ring (41) which is formed from a resin and reinforcing fibers in a ring shape extending in the circumferential direction, and engages, from the outer peripheral side, a step section (36) formed in the back surface (32) of the impeller body (31) and having a fitting surface (37) facing the outer peripheral side.

IPC 8 full level
F04D 29/28 (2006.01); **F04D 29/02** (2006.01)

CPC (source: EP US)
F04D 17/10 (2013.01 - US); **F04D 29/023** (2013.01 - EP US); **F04D 29/284** (2013.01 - EP US); **F05D 2300/603** (2013.01 - EP US)

Citation (search report)
• [XA] US 5464325 A 19951107 - ALBRING PETER [DE], et al
• See references of WO 2016088451A1

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 3211241 A1 20170830; EP 3211241 A4 20171122; EP 3211241 B1 20201202; CN 107002705 A 20170801; CN 107002705 B 20190308; JP 2016108986 A 20160620; JP 6288516 B2 20180307; US 2017328372 A1 20171116; WO 2016088451 A1 20160609

DOCDB simple family (application)
EP 15865836 A 20151009; CN 201580065062 A 20151009; JP 2014245157 A 20141203; JP 2015078778 W 20151009; US 201515531567 A 20151009