

Title (en)
TURBOCHARGER IMPELLER

Title (de)
LAUFRAD EINES ABGASTURBOLADERS

Title (fr)
ROTOR D'UN TURBOCOMPRESSEUR

Publication
EP 2877701 B1 20170510 (DE)

Application
EP 13733304 A 20130702

Priority
• DE 102012212896 A 20120724
• EP 2013063958 W 20130702

Abstract (en)
[origin: WO2014016084A1] The invention relates to a rotor of an exhaust gas turbocharger, which has a rotor hub and rotor vanes arranged on said rotor hub. The rotor vanes have a vane thickness distribution selected such that these rotor vanes have along their extent from the fluid leading edge (4) to the fluid trailing edge (5) at least one transition between a stiffness-oriented vane thickness distribution and an inertia and stress-oriented vane thickness distribution over the height of the vane.

IPC 8 full level
F04D 25/02 (2006.01); **F01D 5/14** (2006.01); **F04D 29/28** (2006.01); **F04D 29/30** (2006.01)

CPC (source: EP US)
F01D 5/14 (2013.01 - EP US); **F01D 5/141** (2013.01 - US); **F04D 25/024** (2013.01 - EP US); **F04D 29/284** (2013.01 - EP US); **F04D 29/30** (2013.01 - EP US); **F05D 2220/40** (2013.01 - EP US); **F05D 2240/301** (2013.01 - US); **F05D 2250/711** (2013.01 - US); **F05D 2250/712** (2013.01 - US)

Cited by
US11421702B2

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 2014016084 A1 20140130; BR 112015001398 A2 20170704; BR 112015001398 B1 20210928; BR 112015001398 B8 20230418; CN 104471190 A 20150325; CN 104471190 B 20170704; DE 102012212896 A1 20140220; EP 2877701 A1 20150603; EP 2877701 B1 20170510; IN 10346DEN2014 A 20150807; US 10253633 B2 20190409; US 2015204195 A1 20150723

DOCDB simple family (application)
EP 2013063958 W 20130702; BR 112015001398 A 20130702; CN 201380039415 A 20130702; DE 102012212896 A 20120724; EP 13733304 A 20130702; IN 10346DEN2014 A 20141204; US 201314416413 A 20130702