

Title (en)

CENTRIFUGAL COMPRESSOR, SUPERCHARGER WITH SAME, AND METHOD FOR OPERATING CENTRIFUGAL COMPRESSOR

Title (de)

ZENTRIFUGALVERDICHTER, LADER DAMIT UND VERFAHREN ZUM BETRIEB DES ZENTRIFUGALVERDICHTERS

Title (fr)

COMPRESSEUR CENTRIFUGE, SURPRESSEUR MUNI DE CELUI-CI, ET PROCÉDÉ DE FONCTIONNEMENT DU COMPRESSEUR CENTRIFUGE

Publication

**EP 2930370 A4 20151202 (EN)**

Application

**EP 13861290 A 20131202**

Priority

- JP 2012266274 A 20121205
- JP 2013082346 W 20131202

Abstract (en)

[origin: EP2930370A1] This centrifugal compressor is provided with an impeller (20) which rotates about an axis (L) and a labyrinth seal section (1) which seals between a wall section located on the rear surface side of the impeller (20) and the rear surface of the impeller (20). The labyrinth seal (1) has labyrinth grooves which are circumferential grooves centered on the axis (L). A cooling hole through which a cooling medium flows is connected to at least one of the labyrinth grooves.

IPC 8 full level

**F04D 29/08** (2006.01); **F04D 29/58** (2006.01)

CPC (source: EP)

**F04D 29/083** (2013.01); **F04D 29/284** (2013.01); **F04D 29/584** (2013.01); **F05D 2220/40** (2013.01)

Citation (search report)

- [X] DE 102006048784 A1 20080417 - MAN DIESEL SE [DE]
- [X] JP 2008045425 A 20080228 - MITSUBISHI HEAVY IND LTD
- [X] EP 2067999 A1 20090610 - NAPIER TURBOCHARGERS LTD [GB]
- See references of WO 2014087966A1

Cited by

US11199201B2

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 2930370 A1 20151014**; **EP 2930370 A4 20151202**; CN 104903586 A 20150909; JP 2014111905 A 20140619; KR 20150081342 A 20150713; WO 2014087966 A1 20140612

DOCDB simple family (application)

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