

Title (en)  
CENTRIFUGAL COMPRESSOR

Title (de)  
ZENTRIFUGALVERDICHTER

Title (fr)  
COMPRESSEUR CENTRIFUGE

Publication  
**EP 3012461 A4 20170208 (EN)**

Application  
**EP 13887157 A 20130620**

Priority  
JP 2013066989 W 20130620

Abstract (en)  
[origin: EP3012461A1] Provided is a centrifugal compressor in which a malfunction such as shaft vibration due to rotating stall is suppressed, and degradation of performance due to friction losses or the like is suppressed. In a centrifugal compressor (10) including a diffuser section (15) for circulating fluid discharged from an impeller (13), a flow path width W2 of the diffuser section (15) at an inflow position where the fluid flows in the diffuser section (15) is narrower than a flow path width W1 of the impeller (13) at a discharge position where the fluid is discharged from the impeller (13), and a flow path width enlarged section (15c) wider than the flow path width W1 of diffuser section (15) at the inflow position is provided on a downstream side with respect to the inflow position of the diffuser section (15).

IPC 8 full level  
**F04D 17/10** (2006.01); **F04D 29/44** (2006.01)

CPC (source: EP US)  
**F04D 17/10** (2013.01 - EP US); **F04D 29/441** (2013.01 - EP US); **F05D 2250/52** (2013.01 - EP)

Citation (search report)

- [XD] JP 2010144698 A 20100701 - IHI CORP
- [XA] WO 2011034044 A1 20110324 - MITSUBISHI HEAVY IND LTD [JP], et al
- [A] JP H078597 U 19950207
- See references of WO 2014203379A1

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 3012461 A1 20160427; EP 3012461 A4 20170208**; CN 105121864 A 20151202; CN 105121864 B 20170609; US 2016108920 A1 20160421; WO 2014203379 A1 20141224

DOCDB simple family (application)  
**EP 13887157 A 20130620**; CN 201380075731 A 20130620; JP 2013066989 W 20130620; US 201314785024 A 20130620