

Title (en)
CENTRIFUGAL COMPRESSOR

Title (de)
ZENTRIFUGALVERDICHTER

Title (fr)
COMPRESSEUR CENTRIFUGE

Publication
EP 3012461 A1 20160427 (EN)

Application
EP 13887157 A 20130620

Priority
JP 2013066989 W 20130620

Abstract (en)
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 29/44 (2006.01); **F04D 17/10** (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)

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

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

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