

Title (en)

A centrifugal compressor having inlet guide vanes

Title (de)

Zentrifugalverdichter mit Einlassleitschaufeln

Title (fr)

Compresseur centrifuge avec des aubes de guidage pour l'entrée

Publication

EP 1429032 A3 20040630 (EN)

Application

EP 03011358 A 20030519

Priority

JP 2002358832 A 20021211

Abstract (en)

[origin: EP1429032A2] A centrifugal compressor has a plurality of inlet guide vanes (12a) arranged in a circumferential direction. An outer cylinder (14a) holding the inlet guide vanes (12a) has a larger inner diameter around the inlet guide vanes (12a) than diameters at other areas thereof. Likewise, an inner cylinder (13a) has a larger outer diameter around the inlet guide vanes (12a) than diameters at other areas thereof. Thereby, the inlet guide vanes (12a) can be improved in reliability even when the centrifugal compressor becomes high in suction pressure. <IMAGE>

IPC 1-7

F04D 27/02; **F04D 29/42**

IPC 8 full level

F04D 29/46 (2006.01); **F04D 27/02** (2006.01); **F04D 29/42** (2006.01); **F04D 29/44** (2006.01)

CPC (source: EP)

F04D 27/0246 (2013.01); **F04D 29/4213** (2013.01); **F04D 29/462** (2013.01); **F05D 2250/51** (2013.01)

Citation (search report)

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- [X] DE 821879 C 19511122 - DAIMLER BENZ AG
- [A] DE 889091 C 19530907 - VERSUCHSANSTALT FUER LUFTFAHRT
- [A] EP 0381399 A2 19900808 - HITACHI LTD [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 005, no. 193 (M - 101) 9 December 1981 (1981-12-09)
- [A] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 08 30 August 1996 (1996-08-30)

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DOCDB simple family (application)

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