(11) **EP 1 429 032 A3** 

(12)

### **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3: **30.06.2004 Bulletin 2004/27** 

(51) Int CI.7: **F04D 27/02**, F04D 29/42

- (43) Date of publication A2: 16.06.2004 Bulletin 2004/25
- (21) Application number: 03011358.3
- (22) Date of filing: 19.05.2003
- (84) Designated Contracting States:

  AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
  HU IE IT LI LU MC NL PT RO SE SI SK TR
  Designated Extension States:

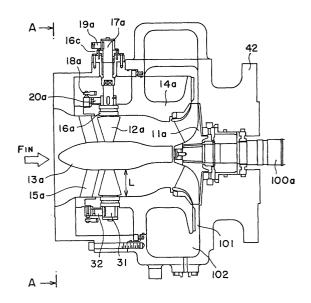
  AL LT LV MK
- (30) Priority: 11.12.2002 JP 2002358832
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#### (54) A centrifugal compressor having inlet guide vanes

(57) 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.

## FIG. I





# **EUROPEAN SEARCH REPORT**

Application Number

EP 03 01 1358

Category	Citation of document with indic	ation, where appropriate,	Relevant	CLASSIFICATION OF THE
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Place of search MINITH		Date of completion of the search 29 April 2004	Fiet	Examiner tas, N
MUNICH  CATEGORY OF CITED DOCUMENTS  X: particularly relevant if taken alone Y: particularly relevant if combined with anot document of the same category A: technological background		T: theory or principle E: earlier patent document cited in L: document cited for	T: theory or principle underlying the in E: earlier patent document, but publishafter the filing date D: document cited in the application L: document cited for other reasons	
O : non-	written disclosure	& : member of the sar		

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**Application Number** 

EP 03 01 1358



# LACK OF UNITY OF INVENTION SHEET B

Application Number EP 03 01 1358

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-5

A centrifugal compressor having an outer cylinder holding the inlet guide vanes and having a larger inner diameter around the inlet guide vanes than diameters at other areas thereof.

2. Claims: 6-9

A centrifugal compressor having devided guide vanes fitted in the inlet guide vanes.

#### ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 03 01 1358

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

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