



European Patent
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EUROPEAN SEARCH REPORT

Application Number
EP 03 01 1358

| DOCUMENTS CONSIDERED TO BE RELEVANT | | | |
|--|--|---|---|
| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim | CLASSIFICATION OF THE APPLICATION (Int.Cl.7) |
| X | DE 10 13 033 B (MASCHF AUGSBURG NUERNBERG AG) 1 August 1957 (1957-08-01) * the whole document * | 1,2,4,5 | F04D27/02F04D29/4 F04D29/44 |
| X | DE 821 879 C (DAIMLER BENZ AG) 22 November 1951 (1951-11-22) * page 2, left-hand column, line 31 - line 51; figure 1 * | 1-3,5 | |
| A | DE 889 091 C (VERSUCHSANSTALT FUER LUFTFAHRT) 7 September 1953 (1953-09-07) * figure 1 * | 1 | |
| A | PATENT ABSTRACTS OF JAPAN vol. 005, no. 193 (M-101), 9 December 1981 (1981-12-09) & JP 56 115897 A (MITSUBISHI HEAVY IND LTD), 11 September 1981 (1981-09-11) * abstract * | 1 | |
| A | PATENT ABSTRACTS OF JAPAN vol. 1996, no. 08, 30 August 1996 (1996-08-30) & JP 08 093682 A (KOBE STEEL LTD), 9 April 1996 (1996-04-09) * abstract * | 6-9 | TECHNICAL FIELDS SEARCHED (Int.Cl.7) F04D |
| A | EP 0 381 399 A (HITACHI LTD) 8 August 1990 (1990-08-08) * abstract * | 6-9 | |
| The present search report has been drawn up for all claims | | | |
| Place of search MUNICH | | Date of completion of the search 29 April 2004 | Examiner Fistas, N |
| CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document | | | |

EPO FORM 1503 03/82 (P04/C01)



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

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:

see sheet B

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



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**LACK OF UNITY OF INVENTION
SHEET B**

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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.

29-04-2004

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
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| DE 1013033 | B | 01-08-1957 | NONE | |
| DE 821879 | C | 22-11-1951 | NONE | |
| DE 889091 | C | 07-09-1953 | NONE | |
| JP 56115897 | A | 11-09-1981 | NONE | |
| JP 08093682 | A | 09-04-1996 | NONE | |
| EP 0381399 | A | 08-08-1990 | DE 69010519 D1 | 18-08-1994 |
| | | | DE 69010519 T2 | 10-11-1994 |
| | | | EP 0381399 A2 | 08-08-1990 |
| | | | JP 2291500 A | 03-12-1990 |
| | | | JP 2807498 B2 | 08-10-1998 |
| | | | US 5096374 A | 17-03-1992 |

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