



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 01 30 3409

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)
D,X	PATENT ABSTRACTS OF JAPAN vol. 006, no. 086 (M-131), 25 May 1982 (1982-05-25) -& JP 57 024486 A (MITSUBISHI ELECTRIC CORP), 9 February 1982 (1982-02-09) * abstract *	1	F04C18/02
A	---	3,5	
X	PATENT ABSTRACTS OF JAPAN vol. 016, no. 376 (M-1294), 12 August 1992 (1992-08-12) -& JP 04 121474 A (TOSHIBA CORP), 22 April 1992 (1992-04-22) * abstract * * figures 1,2 *	1	
X	---	2,6	
	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 08, 29 September 1995 (1995-09-29) -& JP 07 139478 A (DAIKIN IND LTD), 30 May 1995 (1995-05-30) * abstract * * figures 1,2 *		
Y	---	3,5	F04C F01C
	DE 197 36 907 A (ISAD ELECTRONIC SYS GMBH & CO ;GRUENDL & HOFFMANN (DE)) 4 March 1999 (1999-03-04) * figures 1,2 * * column 2, line 9 - line 12 * * column 2, line 32 - line 44 *		
Y	---	3,5	
	US 5 073 093 A (SETO TAKESHI ET AL) 17 December 1991 (1991-12-17) * figures 1,7,10,11 * * column 2, line 55 - line 65 * * column 3, line 27 - line 29 * * column 4, line 30 - column 5, line 16 * --- -/--		
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
THE HAGUE		12 September 2002	Lequeux, F
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 (P04C01)



European Patent
Office

Application Number
EP 01 30 3409

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:



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 01 30 3409

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	US 5 951 268 A (LECLAIRE REMY ET AL) 14 September 1999 (1999-09-14) * figure 1 * * column 3, line 27 - line 38 * * column 3, line 66 - column 4, line 55 * ---	6,8		
A	US 4 637 786 A (OZAWA HITOSHI ET AL) 20 January 1987 (1987-01-20) * figures 1-5 * * column 4, line 21 - line 56 * ---	1		
A	US 5 813 843 A (KOMAI YUJI ET AL) 29 September 1998 (1998-09-29) * figures 1-4 * * column 5, line 33 - line 65 * * column 6, line 12 - column 7, line 32 * ---	1		
A	US 4 424 010 A (MCCULLOUGH JOHN E) 3 January 1984 (1984-01-03) * figure 1 * * column 2, line 49 - line 58 * * column 3, line 30 - line 38 * * column 4, line 10 - line 13 * ---	2		TECHNICAL FIELDS SEARCHED (Int.Cl.7)
A	PATENT ABSTRACTS OF JAPAN vol. 017, no. 306 (M-1428), 11 June 1993 (1993-06-11) -& JP 05 026184 A (MITSUBISHI ELECTRIC CORP), 2 February 1993 (1993-02-02) * abstract * ---	2		
A	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 11, 26 December 1995 (1995-12-26) -& JP 07 229480 A (SANYO ELECTRIC CO LTD), 29 August 1995 (1995-08-29) * abstract * ---	3,5		
The present search report has been drawn up for all claims				
Place of search THE HAGUE		Date of completion of the search 12 September 2002	Examiner Lequeux, F	
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 03/92 (P04C01)



European Patent
Office

**LACK OF UNITY OF INVENTION
SHEET B**

Application Number
EP 01 30 3409

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. Claim : 1

Scroll compressor with anti-self-rotation device having a stationary portion and a movable portion.

2. Claim : 2

Scroll compressor with compressor body inside the orbiting shaft

3. Claims: 3-5

Scroll compressor with compressor body inside the rotor of the motor

4. Claims: 6-8

Double-sided orbiting scroll compressor with anti-self-rotation device on the orbiting shaft.



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 01 30 3409

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)
A	US 3 817 664 A (HATFIELD E ET AL) 18 June 1974 (1974-06-18) * figures 1,2 * * column 2, line 23 - line 26 * * column 4, line 34 - line 38 * * column 5, line 27 - line 32 * ---	6,8	
A	EP 0 831 234 A (ASUKA JAPAN CO LTD) 25 March 1998 (1998-03-25) * figure 4 * * column 1, line 30 - line 33 * -----	8	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
Place of search THE HAGUE		Date of completion of the search 12 September 2002	Examiner Lequeux, F
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 (P04001)

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

EP 01 30 3409

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.

12-09-2002

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 57024486	A	09-02-1982	NONE	
JP 04121474	A	22-04-1992	NONE	
JP 07139478	A	30-05-1995	NONE	
DE 19736907	A	04-03-1999	DE 19736907 A1 WO 9910654 A1	04-03-1999 04-03-1999
US 5073093	A	17-12-1991	JP 2710827 B2 JP 3000991 A DE 4016693 A1 GB 2233043 A ,B HK 140496 A	10-02-1998 07-01-1991 29-11-1990 02-01-1991 09-08-1996
US 5951268	A	14-09-1999	FR 2731051 A1 DE 69605461 D1 DE 69605461 T2 DE 69605462 D1 DE 69605462 T2 EP 0728947 A1 EP 0728948 A1 ES 2140039 T3 ES 2140040 T3 WO 9626366 A1 WO 9626367 A1 JP 11504692 T JP 11500804 T US 6022202 A	30-08-1996 13-01-2000 27-07-2000 13-01-2000 27-07-2000 28-08-1996 28-08-1996 16-02-2000 16-02-2000 29-08-1996 29-08-1996 27-04-1999 19-01-1999 08-02-2000
US 4637786	A	20-01-1987	JP 1605903 C JP 2031239 B JP 61234288 A JP 1859122 C JP 5067795 B JP 61008402 A	31-05-1991 12-07-1990 18-10-1986 27-07-1994 27-09-1993 16-01-1986
US 5813843	A	29-09-1998	JP 8319966 A DE 19647321 A1	03-12-1996 20-05-1998
US 4424010	A	03-01-1984	AU 548749 B2 AU 8868382 A CA 1195550 A1 CH 649349 A5 DE 3238668 A1 FR 2514835 A1	02-01-1986 28-04-1983 22-10-1985 15-05-1985 05-05-1983 22-04-1983

EPO FORM P0459

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

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

EP 01 30 3409

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.

12-09-2002

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4424010	A		GB 2109465 A ,B	02-06-1983
			IT 1155989 B	28-01-1987
			JP 1657830 C	21-04-1992
			JP 3025601 B	08-04-1991
			JP 58079601 A	13-05-1983
			SE 457275 B	12-12-1988
			SE 8205885 A	18-10-1982

JP 05026184	A	02-02-1993	NONE	

JP 07229480	A	29-08-1995	NONE	

US 3817664	A	18-06-1974	NONE	

EP 0831234	A	25-03-1998	JP 10103260 A	21-04-1998
			EP 0831234 A2	25-03-1998
