



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 01 11 4207

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 6 010 314 A (HAMASAKI MASARU ET AL) 4 January 2000 (2000-01-04) * column 9, line 24 - line 67 * * column 5, line 8 - line 13 * * figure 3 *	1-5	F04B27/10
Y	---	6	
Y	US 5 915 928 A (KUBO HIROSHI ET AL) 29 June 1999 (1999-06-29) * column 6, line 60 - column 7, line 10 * ---	6	
A	EP 0 874 154 A (SANDEN CORP) 28 October 1998 (1998-10-28) * abstract *	1	
A	US 4 412 787 A (SHIBUYA TSUNENORI ET AL) 1 November 1983 (1983-11-01) * column 4, line 66 - column 5, line 12 * -----	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			F04B
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
MUNICH		7 May 2003	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 (PC/A/G01)

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

EP 01 11 4207

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.

07-05-2003

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6010314	A	04-01-2000	JP	10196540 A	31-07-1998
			CN	1191271 A	26-08-1998
			DE	19800556 A1	13-08-1998
			FR	2758372 A1	17-07-1998

US 5915928	A	29-06-1999	JP	9250452 A	22-09-1997
			CN	1168449 A ,B	24-12-1997
			DE	19711274 A1	30-10-1997
			FR	2746454 A1	26-09-1997
			KR	235508 B1	15-12-1999

EP 0874154	A	28-10-1998	JP	10299647 A	10-11-1998
			DE	69801948 D1	15-11-2001
			DE	69801948 T2	25-04-2002
			EP	0874154 A2	28-10-1998

US 4412787	A	01-11-1983	JP	1434928 C	07-04-1988
			JP	57065886 A	21-04-1982
			JP	62040557 B	28-08-1987
