

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 1 018 624 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
28.05.2003 Bulletin 2003/22

(51) Int Cl.7: **F24F 1/02**

(43) Date of publication A2:
12.07.2000 Bulletin 2000/28

(21) Application number: **99106745.5**

(22) Date of filing: **03.04.1999**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE**
Designated Extension States:
AL LT LV MK RO SI

(72) Inventor: **Ungarelli, Fabrizio**
40069 Zola Predosa (Bologna) (IT)

(74) Representative: **Sassatelli, Franco T., Dr.**
c/o INIP
5, via Ruggi
40137 Bologna (IT)

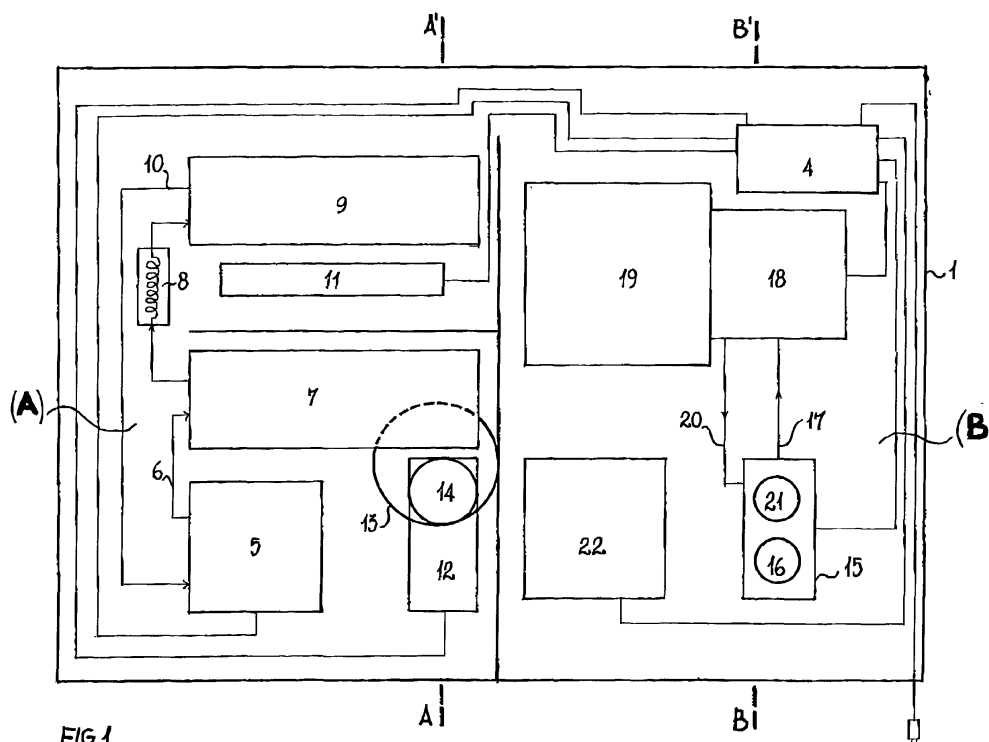
(30) Priority: **05.01.1999 IT BO990001**

(71) Applicant: **Ungarelli, Fabrizio**
40069 Zola Predosa (Bologna) (IT)

(54) Apparatus with differentiated heating and air conditioning plants

(57) The apparatus is realized mounting on two divided sectors of a setting our square body a cooling air plant (A) consists of a refrigerating cycle with cooling compression and heat exchangers acting with electricity with air or water cooling and a heating plant (B) consists of an incorporated fuel burner and/or a radiator with wa-

ter circulation and/or resistance. Said plants (A) and (B), with schemes and form of the elements for a solution of the least dimensions, to be setting out on the inside square face of the central part of a sheet metal body (1) and to be delimited by a separator (2) with poser line (3) for the electric current to feed a power switchboard (4).



EP 1 018 624 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 99 10 6745

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 4 072 187 A (LODGE ROBERT H) 7 February 1978 (1978-02-07) * column 2, line 48 - column 3, line 67; claim 1; figures 1-5 *	1,2	F24F1/02
Y	WO 95 33960 A (URCH JOHN FRANCIS) 14 December 1995 (1995-12-14) * page 15, line 23 - page 17, line 4; figure 10 *	1,2	
Y	DE 40 17 272 A (SCHEU & WIRTH AG) 7 March 1991 (1991-03-07) * abstract; figure 1 *	1,2	
A	US 4 828 171 A (AKIN JR JOSEPH A ET AL) 9 May 1989 (1989-05-09) * the whole document *	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			F24F
Place of search		Date of completion of the search	Examiner
MUNICH		1 April 2003	Valenza, D
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			

EPO FORM 1503 03.82 (P04C01)

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

EP 99 10 6745

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.

01-04-2003

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4072187	A	07-02-1978	NONE	

WO 9533960	A	14-12-1995	AU 683758 B2	20-11-1997
			AU 2557495 A	04-01-1996
			WO 9533960 A1	14-12-1995
			ZA 9504559 A	24-04-1996
			AU 692375 B2	04-06-1998
			AU 5000596 A	30-10-1996
			WO 9632611 A1	17-10-1996
			CA 2217971 A1	17-10-1996
			CN 1181802 A	13-05-1998
			EP 0817944 A1	14-01-1998
			NZ 303638 A	27-03-2000
			ZA 9602849 A	11-10-1996

DE 4017272	A	07-03-1991	DE 4017272 A1	07-03-1991

US 4828171	A	09-05-1989	AU 620400 B2	20-02-1992
			AU 3486189 A	23-11-1989
			CA 1280046 A1	12-02-1991
			JP 1831920 C	29-03-1994
			JP 2057831 A	27-02-1990
			JP 5043933 B	05-07-1993
