



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 1 024 334 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
04.09.2002 Bulletin 2002/36

(51) Int Cl.7: **F24F 13/068**

(43) Date of publication A2:
02.08.2000 Bulletin 2000/31

(21) Application number: **99125755.1**

(22) Date of filing: **23.12.1999**

(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: **De Siatì, Luca**
20010 Pregnana Milanese (MI) (IT)

(74) Representative: **Apra', Mario**
Apra' Brevetti
Via Bertola 2
10121 Torino (IT)

(30) Priority: **28.01.1999 IT TO990061**

(71) Applicant: **TUB-AIR S.n.c di DE SIATI Luca e
CIGOGNETTI Claudio**
20030 SENAGO (Milano) (IT)

(54) **Air diffuser**

(57) According to the invention, a diffuser (10) with an airtight tubular body (11) having a flexible wall is positioned in the upper part of an environment, in which a static layering of warm air tends to occur. The said body (11) has at least one air intake (11.1) through which warm air is conveyed by forced conveying means (13) into the said tubular body (11) and fed in the form of a

continuous flow to at least one aperture (nozzle 12) of the body for the outlet of pressurized air, oriented towards the lower layers of air in the environment. A continuous flow of primary air (C) passes through the said at least one aperture (12) into the said lower layers of air in the environment concerned, while it generates an ambient air recirculation field in the vicinity of the aperture (12) by an inductive phenomenon.

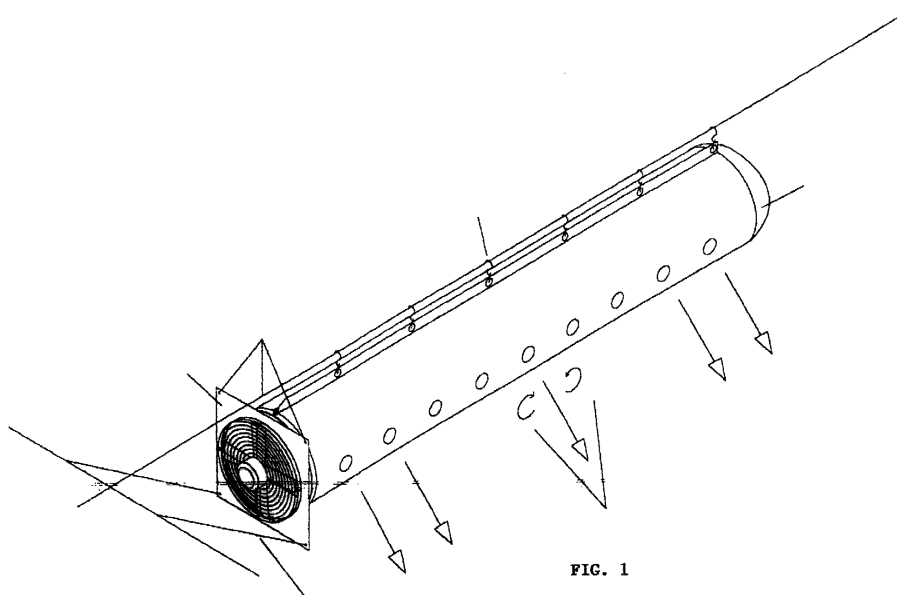


FIG. 1

EP 1 024 334 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 99 12 5755

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)
Y	WO 92 14973 A (FLAEKT AB) 3 September 1992 (1992-09-03)	1	F24F13/068
A	* page 7, line 35 - page 8, line 10; figure 3B *	2,3	
Y	US 5 769 708 A (PASCHKE NICK) 23 June 1998 (1998-06-23) * abstract; claim 1; figures 1-3 *	1	
A	PATENT ABSTRACTS OF JAPAN vol. 009, no. 213 (M-408), 30 August 1985 (1985-08-30) & JP 60 071832 A (NIHON HAIGOU SHIRIYOU KK), 23 April 1985 (1985-04-23) * abstract *	1-3	
A	PATENT ABSTRACTS OF JAPAN vol. 015, no. 303 (M-1142), 2 August 1991 (1991-08-02) & JP 03 110343 A (MITSUBISHI RAYON ENG CO LTD), 10 May 1991 (1991-05-10) * abstract *		TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			F24F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 12 July 2002	Examiner Gonzalez-Granda, C
<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>			

EPC FORM 1503 03 82 (P04C01)

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

EP 99 12 5755

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.

12-07-2002

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9214973	A	03-09-1992	FI 910729 A	15-08-1992
			AT 152232 T	15-05-1997
			AU 1257592 A	15-09-1992
			DE 69219320 D1	28-05-1997
			DE 69219320 T2	25-09-1997
			DK 571478 T3	20-10-1997
			EP 0571478 A1	01-12-1993
			WO 9214973 A1	03-09-1992
<hr/>				
US 5769708	A	23-06-1998	NONE	
<hr/>				
JP 60071832	A	23-04-1985	NONE	
<hr/>				
JP 03110343	A	10-05-1991	NONE	
<hr/>				