



Europäisches Patentamt  
European Patent Office  
Office européen des brevets



(11) **EP 1 574 789 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**23.11.2005 Bulletin 2005/47**

(51) Int Cl.7: **F24F 13/22**, F24F 1/00,  
F28F 13/04, F24F 13/20

(43) Date of publication A2:  
**14.09.2005 Bulletin 2005/37**

(21) Application number: **05012930.3**

(22) Date of filing: **03.04.2001**

(84) Designated Contracting States:  
**ES IT**

(30) Priority: **05.04.2000 JP 2000103280**  
**31.07.2000 JP 2000231570**

(62) Document number(s) of the earlier application(s) in  
accordance with Art. 76 EPC:  
**01108411.8 / 1 143 205**

(71) Applicant: **MITSUBISHI DENKI KABUSHIKI**  
**KAISHA**  
**Tokyo 100-8310 (JP)**

(72) Inventors:

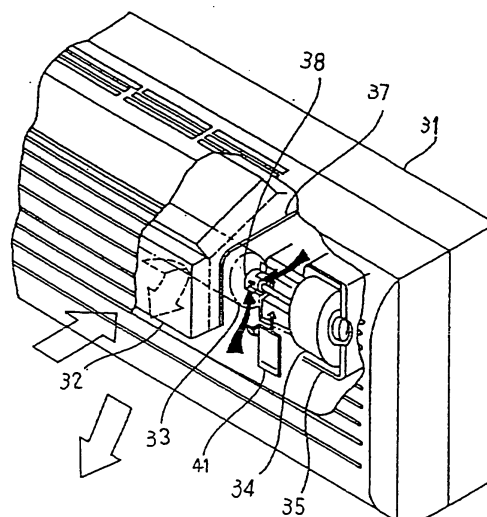
- **Tazawa, Hironobu**  
**Tokyo 100-8310 (JP)**
- **Hotta, Toshihiro**  
**Tokyo 100-8310 (JP)**
- **Matsunaga, Atsushi**  
**Tokyo 100-8310 (JP)**

(74) Representative: **Sajda, Wolf E. et al**  
**MEISSNER, BOLTE & PARTNER**  
**Widenmayerstrasse 48**  
**80538 München (DE)**

(54) **Air conditioner**

(57) An air conditioner is provided which comprises a housing (31) and a heat exchanger (32) disposed in the housing of (31). A line flow fan (33) is disposed between the heat exchanger (32) and the housing (31) for blowing air heat-exchanged by the heat exchanger (32) to the outside. A casing (35) is mounted in the housing (31) for receiving a motor (34) for driving the line flow fan (33). A partition plate (37) is provided between an air passageway in which the air is carried out by the line flow fan (33) and a space in which the casing (35) of the motor (34) is mounted. In the partition plate (37) a receiving portion (38) is disposed to permit insertion there-through of a coupling fixation portion (49) for coupling the motor (34) with the line flow fan (33). A shielded space (50) is formed inside the casing (35) so that an outer circumference of a shaft of the motor (34) is covered, and the casing (35) is disposed in close contact with the partition plate (37).

**FIG. 10**



**EP 1 574 789 A3**



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 05 01 2930

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	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 08, 30 June 1998 (1998-06-30) -& JP 10 061964 A (FUJITSU GENERAL LTD), 6 March 1998 (1998-03-06)	1	F24F13/22 F24F1/00 F28F13/04 F24F13/20
A	* abstract *	2,3	
A	----- EP 0 769 660 A (MATSUSHITA ELECTRIC IND CO LTD) 23 April 1997 (1997-04-23) * column 4, line 29 - line 57; figure 2 * -----	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			F24F F28F
The present search report has been drawn up for all claims			
Place of search <b>The Hague</b>		Date of completion of the search <b>4 October 2005</b>	Examiner <b>Gonzalez-Granda, C</b>
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	

2  
EPO FORM 1503 03/82 (P04C01)

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

EP 05 01 2930

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.

04-10-2005

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 10061964	A	06-03-1998	NONE	
-----				
EP 0769660	A	23-04-1997	CN 1157900 A	27-08-1997
			ES 2160753 T3	16-11-2001
			JP 9112944 A	02-05-1997
-----				