



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
28.04.2010 Bulletin 2010/17

(51) Int Cl.:
F24F 1/00 (2006.01) F24F 13/20 (2006.01)

(43) Date of publication A2:
24.02.2010 Bulletin 2010/08

(21) Application number: **09010626.1**

(22) Date of filing: **18.08.2009**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR
Designated Extension States:
AL BA RS

(30) Priority: **21.08.2008 JP 2008213375**
21.08.2008 JP 2008213376
21.08.2008 JP 2008213377

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(54) **Indoor unit of an airconditioner comprising at least one cross-flow fan**

(57) [Problem(s) to Be Solved]

Dewdrops adhering to a motor support portion or a bearing support portion of a pair of upper and lower cross-flow fans as structural parts are prevented from entering a ventilation trunk, and are prevented from being discharged and flying from an outlet into room together with cool air.

[Means for Solving the Problem(s)]

In an air conditioning apparatus 1 comprising a heat exchanger 3 and a pair of upper and lower cross-flow fans 4, 5 in a housing 2 having a front inlet 8, a side inlet 9, an upper outlet 10, and a lower outlet 11, so that air flowing from the front inlet 8 and the side inlet 9 into the housing 2 is heat-exchanged by the heat exchanger 3 and blown off from the upper outlet 10 and the lower outlet 11 by means of the pair of the upper and lower cross-flow fans 4, 5, bearing support portions 22A, 22B and motor support portions 23A, 23B of the pair of the upper and lower cross-flow fans 4, 5 are integrally formed, respectively.

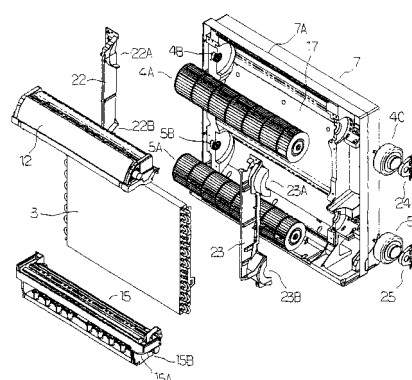


FIG. 4



EUROPEAN SEARCH REPORT

Application Number
EP 09 01 0626

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	EP 1 734 313 A (LG ELECTRONICS INC [KR]) 20 December 2006 (2006-12-20) * columns 55,56,68 - column 78; figures 5,7 *	1,2	INV. F24F1/00 F24F13/20
X	JP 03 117828 A (SANYO ELECTRIC CO) 20 May 1991 (1991-05-20) * abstract; figures 2,5,7,8 *	1,2	
			TECHNICAL FIELDS SEARCHED (IPC)
			F24F
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 27 November 2009	Examiner Decking, Oliver
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			

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EPO FORM 1503 03.82 (P04C01)



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due 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 those claims for which no payment was due.

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:

see additional sheet(s)

☐ The present supplementary 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 (Rule 164 (1) EPC).



LACK OF UNITY OF INVENTION
SHEET B

Application Number
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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. claims: 1,2

The subject-matter of claim 1 and claim 2 is directed to an air conditioner wherein a bearing support portion and a motor support portion of a pair of upper and lower corss-flow fans are integrally formed, respectively.

2. claims: 3,4,5

The subject-matter of claims 3-5 is directed to an air conditioner, wherein a special drain hose connection is provided.

3. claims: 6,7

The subject-matter of claim 6 and claim 7 is directed to an air conditioner, wherein a wire netting is provided to avoid fingers being inserted into the openings of the air conditioner.

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

EP 09 01 0626

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.

27-11-2009

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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			KR 20060131174 A	20-12-2006

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