



(11) **EP 1 925 887 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
06.03.2013 Bulletin 2013/10

(51) Int Cl.:
F24F 11/00 (2006.01)

(43) Date of publication A2:
28.05.2008 Bulletin 2008/22

(21) Application number: **07108537.7**

(22) Date of filing: **21.05.2007**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR
Designated Extension States:
AL BA HR MK RS

- **Seo, Kook Jeong,**
No.101-1304, Cheongdeokmaeul-gwangdo-Giheung-gu, Yongin-si, Gyeonggi-do (KR)
- **Kim, Hyung Chel**
Busan (KR)

(30) Priority: **22.11.2006 KR 20060116079**

(71) Applicant: **Samsung Electronics Co., Ltd.**
Suwon-si, Gyeonggi-do, 443-742 (KR)

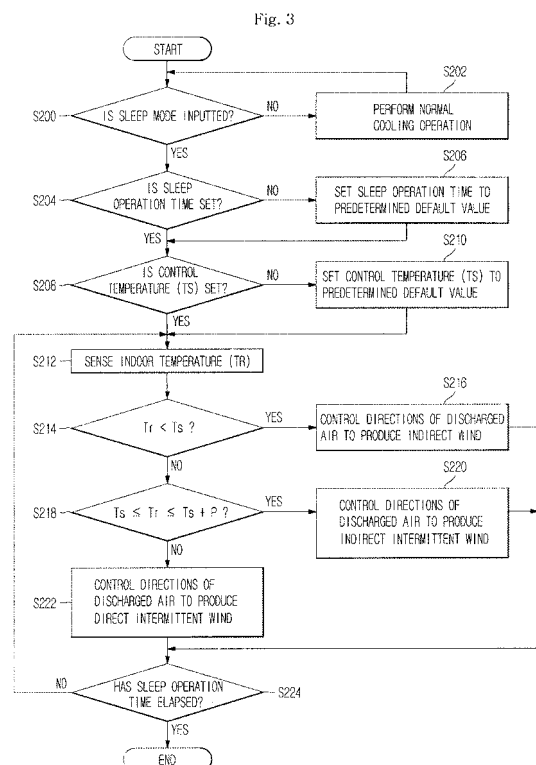
(74) Representative: **Grünecker, Kinkeldey, Stockmair & Schwanhäusser**
Leopoldstrasse 4
80802 München (DE)

(72) Inventors:

- **Song, Myung Seob**
Gyeonggi-do (KR)

(54) **Apparatus and method for controlling air current in sleep mode of air conditioner**

(57) An apparatus and method for controlling an air current in a sleep mode of an air conditioner, in which the directions of air discharged through discharge holes and the volume of the discharged air are controlled so as to reduce power consumption while creating a comfortable sleeping environment. The method for controlling an air current in a sleep mode of an air conditioner having blades for adjusting directions of discharged air, includes determining whether the sleep mode is inputted; sensing an indoor temperature, when it is determined that the sleep mode is inputted; and comparing the sensed indoor temperature with a set control temperature, and adjusting the directions of the discharged air according to the results of the comparison.



EP 1 925 887 A3



EUROPEAN SEARCH REPORT

Application Number
EP 07 10 8537

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
E	EP 1 811 239 A2 (SAMSUNG ELECTRONICS CO LTD [KR]) 25 July 2007 (2007-07-25) * the whole document * -----	1-5, 8-11, 14-16	INV. F24F11/00
X	EP 0 324 462 A2 (MITSUBISHI ELECTRIC CORP [JP]) 19 July 1989 (1989-07-19) * paragraph [0004] - paragraph [0024] * * figures * -----	1	
A	JP 2000 171072 A (SANYO ELECTRIC CO) 23 June 2000 (2000-06-23) * abstract; figures * -----	1,8,10, 15	
A	JP 2001 116319 A (LG ELECTRONICS INC) 27 April 2001 (2001-04-27) * abstract; figures * -----	1,8,10, 15	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
			F24F
Place of search Munich		Date of completion of the search 23 January 2013	Examiner Mattias Grenbäck
<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>			

1
EPO FORM 1503.03.82 (P04C01)

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

EP 07 10 8537

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.

23-01-2013

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 1811239	A2	25-07-2007	CN	101004286 A		25-07-2007
			EP	1811239 A2		25-07-2007
			KR	20070076857 A		25-07-2007

EP 0324462	A2	19-07-1989	AU	2831489 A		13-07-1989
			DE	68917740 D1		06-10-1994
			DE	68917740 T2		22-12-1994
			EP	0324462 A2		19-07-1989
			HK	6095 A		20-01-1995
			US	4895002 A		23-01-1990

JP 2000171072	A	23-06-2000	NONE			

JP 2001116319	A	27-04-2001	JP	3357655 B2		16-12-2002
			JP	2001116319 A		27-04-2001
			KR	20010037882 A		15-05-2001
