

(11) **EP 2 058 598 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:

09.07.2014 Bulletin 2014/28

(51) Int Cl.:

F24F 11/00 (2006.01)

F24F 3/06 (2006.01)

(43) Date of publication A2:

13.05.2009 Bulletin 2009/20

(21) Application number: 08252087.5

(22) Date of filing: 18.06.2008

(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 MT NL NO PL PT RO SE SI SK TR

Designated Extension States:

AL BA MK RS

(30) Priority: **07.11.2007** KR **20070113279**

(71) Applicant: LG Electronics Inc.

Youngdungpo-ku Seoul 150-721 (KR) (72) Inventors:

• Kim, Yoon Kyu Kyungsangnam-do 641-110 (KR)

 Kim, Young Hyoug Kyungsangnam-do 641-110 (KR)

(74) Representative: Boult Wade Tennant

Verulam Gardens 70 Gray's Inn Road London WC1X 8BT (GB)

(54) Air conditioner and operating method thereof

(57) Provided are an air conditioner and an operating method thereof, in which a plurality of schedules can be effectively set for each of a plurality of units in an air conditioner with a schedule conflict by making time periods reserved for existing schedules unavailable for new schedules or by either incorporating conflicting schedules, if any, into a single schedule or selecting one of the

conflicting schedules. Therefore, it is possible to improve the safety of the control of an air conditioner by effectively controlling schedules set for each unit in an air conditioner while preventing a schedule conflict. In addition, it is possible to control an air conditioner in a sophisticated manner involving the application of a plurality of schedules and thus to improve user convenience.



EUROPEAN SEARCH REPORT

Application Number EP 08 25 2087

	DOCUMENTS CONSID			
Category	Citation of document with in of relevant pass	ndication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	JP 2005 337614 A (E 8 December 2005 (20 * paragraph [0033] figures 1-4 *	DAIKIN IND LTD) 105-12-08) - paragraph [0048];	1-14	INV. F24F11/00 F24F3/06
<	WO 2007/097512 A2 ([KR]; KIM YOUNG-HYO INC [KR]) 30 August	OUNG [KR] LG ELECTRONICS	1,10	
4	* paragraph [0020] figures 1-4 *	- paragraph [0054];	2-9, 11-14	
١	US 2003/103415 A1 (AL) 5 June 2003 (20 * abstract; figures		1	
١	EP 1 429 082 A2 (LG 16 June 2004 (2004- * the whole documer	06-16)	1-14	
				TECHNICAL FIELDS SEARCHED (IPC)
				F24F
				G06Q
	The present search report has	been drawn up for all claims		
	Place of search	Date of completion of the search		Examiner
	Munich	27 May 2014	Gor	nzález-Granda, C
C	ATEGORY OF CITED DOCUMENTS	T: theory or principle		
X : part	icularly relevant if taken alone	E : earlier patent door after the filing date	ument, but publi:	
X : part Y : part docu		E : earlier patent door after the filling date her D : dooument cited in L : dooument cited fo	ument, but publise the application rother reasons	

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

EP 08 25 2087

5

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.

27-05-2014

1	0	

15

20

	Patent document ed in search report		Publication date	Patent family member(s)	Publication date
JP	2005337614	Α	08-12-2005	NONE	•
WO	2007097512	A2	30-08-2007	CN 101535731 A EP 1987294 A2 KR 20070083056 A WO 2007097512 A2	16-09-2009 05-11-2008 23-08-2007 30-08-2007
US	2003103415	A1	05-06-2003	NONE	
EP	1429082	A2	16-06-2004	CN 1506634 A EP 1429082 A2 JP 2004191037 A US 2004107717 A1	23-06-2004 16-06-2004 08-07-2004 10-06-2004

25

30

35

40

45

50

55

FORM P0459

 $\stackrel{ ext{O}}{ ext{th}}$ For more details about this annex : see Official Journal of the European Patent Office, No. 12/82