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(54) **A method for defrosting process**

(57) The method of the invention is developed for the cooler devices that can detect the time of defrosting, and the initiation time of the defrosting process can be controlled by using this method. In the method of the invention, while the said cooler device continues to operate, the next defrosting time is calculated momentarily depending on the changing inner and outer environment

conditions. For the said purposes, the values measured by the inner and outer environment temperature and/or humidity meter are evaluated by the control unit. The time of the next defrosting process is calculated in accordance with the duration that at least one of the compartment doors of the device is kept close.

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EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	WO 2005/088215 A1 (ARCELIK AS [TR]; ERCAN TURGAY [TR]; ARISOY EMRE [TR]; ATILLA YUKSEL [T] 22 September 2005 (2005-09-22) * paragraph [0023] - paragraph [0025]; figure 1 *	1	INV. F25D21/00
A	----- US 5 887 443 A (LEE GIHYEONG [KR] ET AL) 30 March 1999 (1999-03-30) * the whole document *	1	
A	----- US 4 297 852 A (BROOKS ROBERT B) 3 November 1981 (1981-11-03) * claim 1 *	1	
A	----- US 2002/139132 A1 (COLLINS MARTIN [US]) 3 October 2002 (2002-10-03) * claim 13 *	1	
			TECHNICAL FIELDS SEARCHED (IPC)
			F25D
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 19 July 2013	Examiner Jessen, Flemming
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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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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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
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2005088215 A1	22-09-2005	CN 1934401 A	21-03-2007
		EP 1730457 A1	13-12-2006
		KR 20060126808 A	08-12-2006
		RU 2337283 C2	27-10-2008
		TR 200604831 T1	22-01-2007
		WO 2005088215 A1	22-09-2005

US 5887443 A	30-03-1999	NONE	

US 4297852 A	03-11-1981	BR 8104641 A	06-04-1982
		US 4297852 A	03-11-1981

US 2002139132 A1	03-10-2002	US 2002139132 A1	03-10-2002
		US 2003131615 A1	17-07-2003
		US 2004112072 A1	17-06-2004

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82