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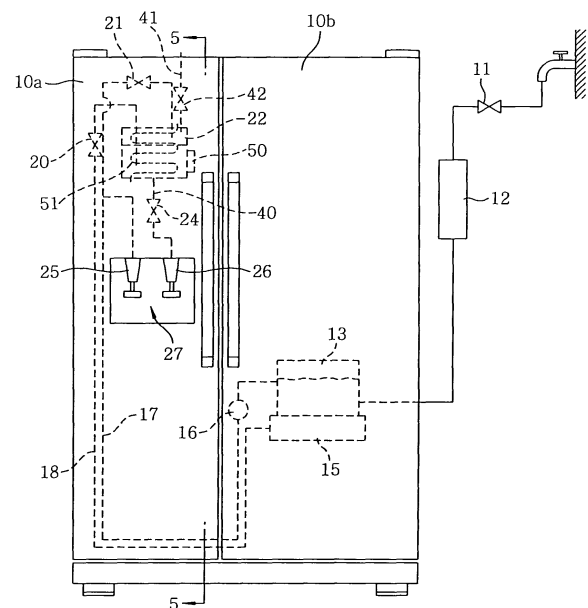
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(54) **Refrigerator door with a carbonator installed therein**

(57) A refrigerator door with a carbonator installed therein includes a heating device provided at an inner portion of the refrigerator door, for supplying heat to the carbonator. The refrigerator door further includes a temperature detecting device for measuring a temperature of the carbonator and then generating a signal indicating the measured temperature; and a controller for controlling the heating device according to the signal from the temperature detecting device. If the temperature of the carbonator is lower than or equal to a preset operation temperature, the controller controls the heating device to generate heat.

FIG. 4



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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)
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Y	EP 0 657 707 A1 (GOLD STAR CO [KR]) 14 June 1995 (1995-06-14) * paragraphs [0005] - [0012]; figures 1,2 *	1-5	
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P,A	WO 2005/052477 A (LG ELECTRONICS INC [KR]; KIM SEONG-OOK [KR]; KIM ILL-SHIN [KR]; AN SI-) 9 June 2005 (2005-06-09) * page 12, line 4 - page 14, line 1; figures 1,2 *	1-5	
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2 The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		20 November 2006	Léandre, Arnaud
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			

**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims 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 the first ten claims.

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:

1-5



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**LACK OF UNITY OF INVENTION
SHEET B**

Application Number
EP 05 01 3947

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: 1-5

A refrigerator door with a carbonator and a heating device
therein

2. claims: 6-9

A refrigerator door with a carbonator and a rear wall
portion protrudingly formed on an inner surface of said door

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