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(11) **EP 1 452 811 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
01.12.2004 Bulletin 2004/49

(51) Int Cl.7: **F25D 23/06**, B05B 7/08,
B05C 5/02

(43) Date of publication A2:
01.09.2004 Bulletin 2004/36

(21) Application number: **04001911.9**

(22) Date of filing: **29.01.2004**

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

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(30) Priority: **28.02.2003 IT PN20030016**

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(54) **Apparatus and method for the application of evaporators on already formed refrigerator liners**

(57) In a household-type refrigerator appliance, a method for the application of a roll-bond evaporator onto the outer surface of a liner (1) delimitating internally a food storage compartment of the refrigerator appliance; the method comprises a phase in which adhesive means are interposed between the liner (1) and the evaporator, this phase consisting in applying a layer of adhesive substance on the outer surface (8) of the liner (1), in view of then applying the evaporator thereupon.

The process of deposition of the adhesive layer consists in producing and casting a jet of said adhesive substance towards the surface (8) of application, and converting said jet, as soon as it leaves the emitting nozzle, into a continuous filament which is then almost atomized and distributed all over the surface by means of one or more flows of gas, e.g. air, issued by respective nozzles arranged and oriented towards said filament of adhesive substance in such a manner as to intercept the flowpath thereof and convert it into an open spray.

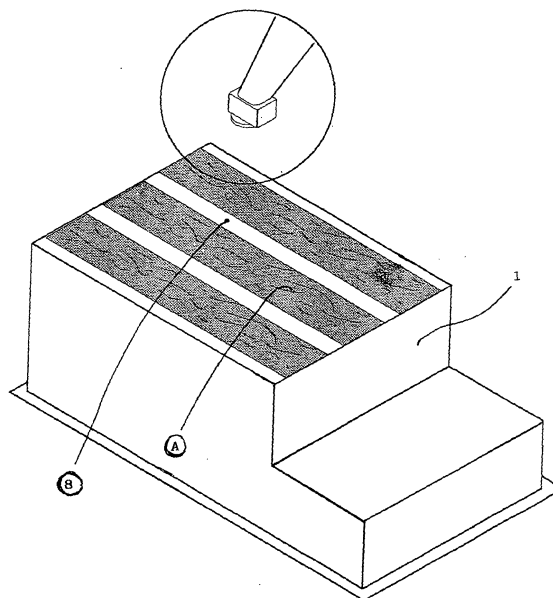


Fig.1

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EUROPEAN SEARCH REPORT

Application Number
EP 04 00 1911

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	US 4 024 620 A (TORCOMIAN ALBERT) 24 May 1977 (1977-05-24)	1	F25D23/06 B05B7/08 B05C5/02
Y	* column 5, line 5 - line 40; figure 4 *	2,3,5	
Y	EP 0 936 000 A (NORDSON CORP) 18 August 1999 (1999-08-18) * paragraph [0069]; figures 2,10 *	2,3,5	
X	US 2 795 035 A (KAHER CLARE H) 11 June 1957 (1957-06-11) * column 2, line 53 - column 3, line 13; figure 6 *	1	
A	US 2002/092865 A1 (KANAMURU FUMINORI ET AL) 18 July 2002 (2002-07-18) * paragraphs [0060] - [0074]; figure 2 *	2,5	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			F25D F25B B05B B05C
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 4 June 2004	Examiner Jessen, F
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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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:

1-6



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**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: 1-6

Method for the application of an evaporator.

2. claims: 7-10

Apparatus with a spray head or a machine to prepare adhesive substance.

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

EP 04 00 1911

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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04-06-2004

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