

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 0 895 041 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
06.10.1999 Bulletin 1999/40

(51) Int Cl.⁶: **F25D 11/00, F25D 17/06,
F24F 13/15**

(43) Date of publication A2:
03.02.1999 Bulletin 1999/05

(21) Application number: **98306029.4**

(22) Date of filing: **29.07.1998**

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

(71) Applicant: **SAMSUNG ELECTRONICS CO., LTD.**
Suwon-city, Kyungki-do 441-373 (KR)

(72) Inventor: **Ji, Joon Dong**
Paldal-ku, Suwon City, Kyungki-do (KR)

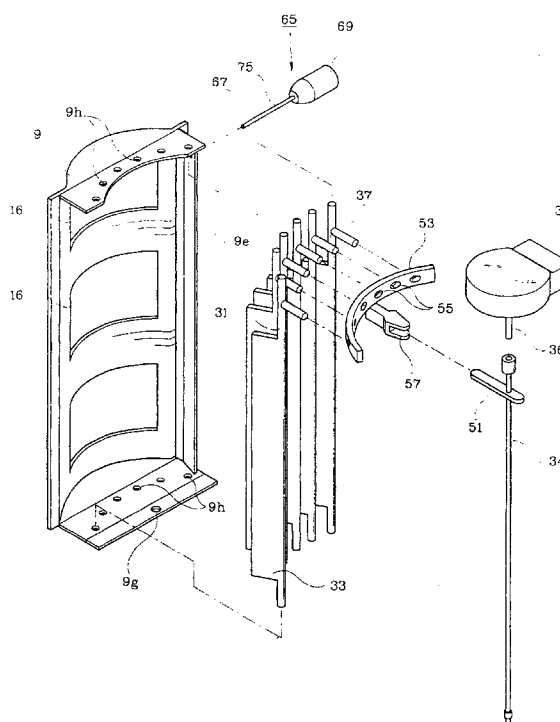
(30) Priority: **29.07.1997 KR 9735938**
29.07.1997 KR 9735939

(74) Representative: **Geary, Stuart Lloyd et al**
Venner, Shipley & Co.,
20 Little Britain
London EC1A 7DH (GB)

(54) Refrigerator

(57) A refrigerator has a cool air dispersing device (30) for distributing cool air horizontally into a cooling compartment (3). Parallel vertical dispersing blades (33) are disposed opposite openings (16) in duct (9). Shafts (31) of blades (33) are connected to a link member (53) which is reciprocated through a predetermined angular range by motor (35). The cool air flowing into the duct (9) is thus dispersed into the cooling compartment (3) horizontally by the blades (33) so the temperature in the compartment is maintained uniform.

FIG. 6



EP 0 895 041 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 98 30 6029

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.6)
X	DE 196 41 722 A (LG ELECTRONICS INC) 17 April 1997 (1997-04-17)	1-3,7,8	F25D11/00 F25D17/06 F24F13/15
Y	* column 2, line 63 - column 4, line 61; figure 10A *	4	

X	PATENT ABSTRACTS OF JAPAN vol. 016, no. 487 (M-1323), 9 October 1992 (1992-10-09) & JP 04 177074 A (HITACHI LTD), 24 June 1992 (1992-06-24) * abstract *	1-3,8	

Y	US 4 301 569 A (MCCABE FRANCIS J) 24 November 1981 (1981-11-24) * column 5, line 27 - column 6, line 38; figure 1 *	4	

A	EP 0 627 601 A (THURGOOD PAUL) 7 December 1994 (1994-12-07) * abstract; figure 1 *	5	

			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			F25D F24F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 17 August 1999	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			

EPO FORM 1503 03.82 (P04C01)

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

EP 98 30 6029

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.

17-08-1999

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 19641722 A	17-04-1997	AU 700288 B	24-12-1998
		AU 6816696 A	17-04-1997
		CN 1151506 A	11-06-1997
		GB 2306211 A,B	30-04-1997
		IT M1962006 A	30-03-1998
		JP 2779352 B	23-07-1998
		JP 9243226 A	19-09-1997
JP 04177074 A	24-06-1992	NONE	
US 4301569 A	24-11-1981	US 4183129 A	15-01-1980
		AU 564984 B	03-09-1987
		AU 3088084 A	23-01-1986
		CA 1150710 A	26-07-1983
		CA 1183384 A	05-03-1985
		CA 1176219 A	16-10-1984
		EP 0015723 A	17-09-1980
		US 4338967 A	13-07-1982
		US 4472999 A	25-09-1984
		US 4555981 A	03-12-1985
EP 0627601 A	07-12-1994	GB 2277987 A,B	16-11-1994