



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
25.07.2007 Bulletin 2007/30

(51) Int Cl.:
F25D 23/08 (2006.01)

(43) Date of publication A2:
12.10.2005 Bulletin 2005/41

(21) Application number: **04292826.7**

(22) Date of filing: **30.11.2004**

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

(30) Priority: **06.04.2004 KR 2004023497**
06.04.2004 KR 2004023499
06.04.2004 KR 2004023501

(71) Applicant: **LG ELECTRONICS INC.**
Seoul (KR)

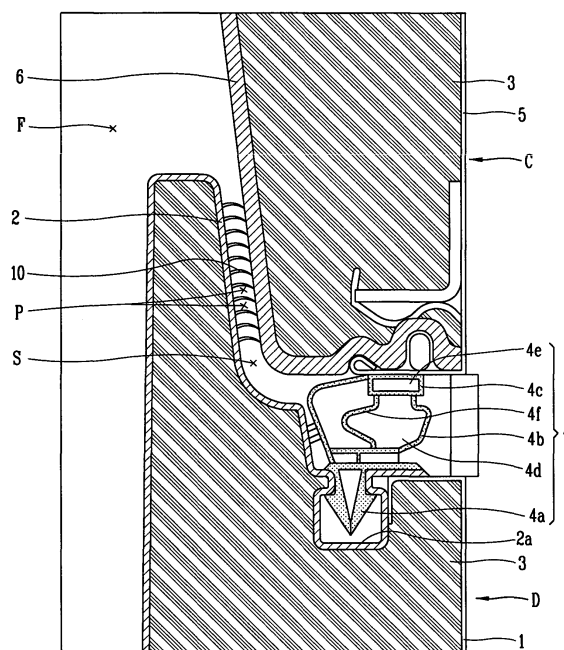
(72) Inventors:
• **Kim, yang-Gyu**
Yeongdeungpo-Gu
Seoul (KR)
• **Lee, Youn-Seok**
Deokyang-Gu
Goyang, Gyeonggi-Do (KR)
• **Kim, Se-Young**
Yeongdeungpo-Gu
Seoul (KR)

(74) Representative: **Loisel, Bertrand**
Cabinet Plasseraud
52 rue de la Victoire
75440 Paris Cedex 09 (FR)

(54) **Sealing structure for refrigerator**

(57) A sealing structure for a refrigerator comprises a blocking member provided inside an air dam having a predetermined width between a refrigerator cabinet and a door liner of a door, for preventing convection in the air dam, so that convection in the air dam is prevented and thus external heat is prevented from being introduced into a storage compartment through the air dam.

FIG. 3





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 04 29 2826

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	JP 10 259983 A (HITACHI LTD) 29 September 1998 (1998-09-29) * figures 6-14 *	1-3,5,6, 8-11,16 4,12-14	INV. F25D23/08
Y	----- DE 87 01 005 U1 (BRUEGMANN FRISOPLAST GMBH, 2990 PAPENBURG, DE) 27 May 1987 (1987-05-27) * page 3, line 15 - line 20 * * figure 2 *	4	
Y	----- BE 493 749 A (CONTINENTAL RESINE S.P.A.) 1 June 1950 (1950-06-01) * figures 1,2 *	12-14	
X	----- US 5 269 099 A (KENNEDY ADAM C [US] ET AL) 14 December 1993 (1993-12-14) * abstract * * figures 2-4 *	1,2,5-8, 10	
X	----- EP 0 583 984 B1 (GEN ELECTRIC [US]) 4 November 1998 (1998-11-04) * figures 3,5 *	1-3,5,6, 10,16	TECHNICAL FIELDS SEARCHED (IPC)
X	----- JP 09 210541 A (SANYO ELECTRIC CO) 12 August 1997 (1997-08-12) * abstract * * figure 1 *	1-3,5,6, 16	F25D B60J
X	----- US 5 551 192 A (AVENDANO JOSE G [US] ET AL) 3 September 1996 (1996-09-03) * abstract * * figures 2,3,7,9 *	1-3,5,7, 16	
	----- -/--		
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 13 June 2007	Examiner Dezso, Gabor
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			

3
EPO FORM 1503 03.82 (P04C01)



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 04 29 2826

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 01/46633 A (MULTIBRAS ELETRODOMESTICOS SA [BR]; MARQUES MARCO EDUARDO [BR]; FERREI) 28 June 2001 (2001-06-28) * abstract * * figure 1 * * claim 1 *	1-3,5,6,10	
A	EP 0 500 058 A (VOLL KAROSSERIEFAB [DE]) 26 August 1992 (1992-08-26) * abstract * * figures 1,2 *	1-3,5-7,9,10	
			TECHNICAL FIELDS SEARCHED (IPC)
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 13 June 2007	Examiner Dezso, Gabor
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			

3
EPO FORM 1503 03.82 (P04C01)

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

EP 04 29 2826

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.

13-06-2007

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 10259983	A	29-09-1998	NONE
DE 8701005	U1	27-05-1987	NONE
BE 493749	A	NONE	
US 5269099	A	14-12-1993	DE 69308960 D1 24-04-1997 DE 69308960 T2 02-10-1997 EP 0583983 A1 23-02-1994 ES 2098669 T3 01-05-1997 JP 3373899 B2 04-02-2003 JP 6180180 A 28-06-1994
EP 0583984	B1	04-11-1998	DE 69321900 D1 10-12-1998 DE 69321900 T2 24-06-1999 EP 0583984 A1 23-02-1994 ES 2121953 T3 16-12-1998 JP 6180179 A 28-06-1994 US 5297360 A 29-03-1994
JP 9210541	A	12-08-1997	NONE
US 5551192	A	03-09-1996	NONE
WO 0146633	A	28-06-2001	BR 7903121 U 24-07-2001 DE 60018104 D1 17-03-2005 DE 60018104 T2 29-12-2005 EP 1240468 A1 18-09-2002 MX PA02005063 A 07-11-2002
EP 0500058	A	26-08-1992	DE 4105660 A1 27-08-1992