



(11) **EP 2 418 443 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
29.01.2014 Bulletin 2014/05

(51) Int Cl.:
F25D 23/02 (2006.01) **E05D 7/00** (2006.01)
E05D 7/04 (2006.01) **E05D 7/08** (2006.01)

(43) Date of publication A2:
15.02.2012 Bulletin 2012/07

(21) Application number: **11177181.2**

(22) Date of filing: **11.08.2011**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME

- **Oh, Jae Sek**
Gwangju (KR)
- **Jung, Sang Gyu**
Gwangju-si (KR)
- **Park, Sung Cheul**
unknown (KR)
- **Lee, Jong Nam**
Gyeonggi-do (KR)

(30) Priority: **11.08.2010 KR 20100077592**

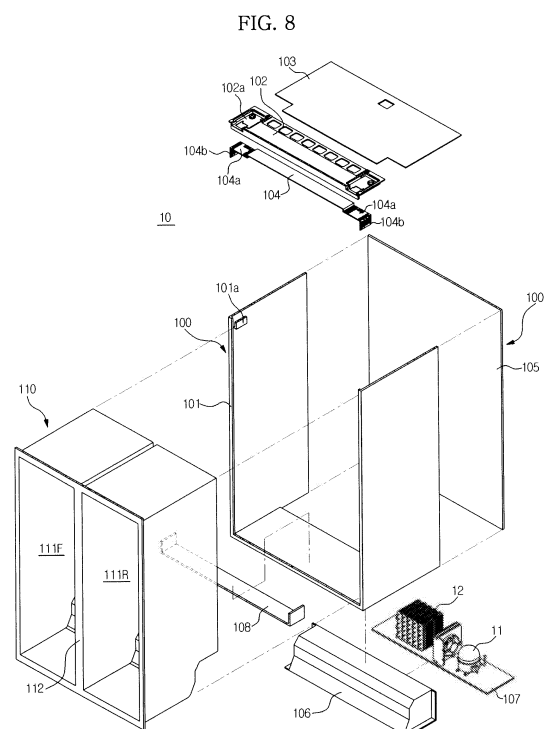
(71) Applicant: **Samsung Electronics Co., Ltd.**
Suwon-si, Gyeonggi-do, 443-742 (KR)

(74) Representative: **Grünecker, Kinkeldey,**
Stockmair & Schwanhäusser
Leopoldstrasse 4
80802 München (DE)

(72) Inventors:
• **Sun, Mu Yeol**
Gwangju-si (KR)

(54) **Refrigerator**

(57) Disclosed herein is a refrigerator including a main body, an outer case forming an external appearance of the main body, an inner case disposed at the inside of the outer case and forming storage chambers, and a heat insulating member formed by filling a space between the outer case and the inner case with foaming resin, wherein the outer case includes a main frame obtained by bending a metal plate into a U shape and forming a lower surface and both side surfaces of the main body, and upper frames installed on the main frame and forming an upper surface of the main body, thereby easily forming main body hinge receipt parts to receive rear ends of upper hinge modules on the upper surface of the main body.



EP 2 418 443 A3



EUROPEAN SEARCH REPORT

Application Number
EP 11 17 7181

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 2009/043696 A1 (BSH BOSCH SIEMENS HAUSGERÄTE [DE]; BAI YUFA [CN]; LEI WUBA [CN]; LU Z) 9 April 2009 (2009-04-09)	1-3,7,8	INV. F25D23/02 E05D7/00
Y	* page 2, line 26 - page 4, line 11 * * page 7, line 25 - page 10, line 13 * * figures 2-7 *	4-6,9-13	E05D7/04 E05D7/08
Y	----- JP 2000 097554 A (SANYO ELECTRIC CO) 4 April 2000 (2000-04-04) * abstract * * figures 1-11,12a-b,13,14a-b *	4-6	
Y	----- US 2010/033067 A1 (KIM KI YOUN [KR] ET AL) 11 February 2010 (2010-02-11) * paragraph [0055] - paragraph [0057] * * paragraph [0068] - paragraph [0083] * * figures 1-9 *	9	
Y	----- US 2006/168760 A1 (ESPINDOLA ESTEVAO M [BR] ET AL) 3 August 2006 (2006-08-03) * paragraph [0022] - paragraph [0032] * * figures 1-5 *	10-13	
Y	----- JP S62 141181 U (ANONYMOUS) 5 September 1987 (1987-09-05) * figures 4-6 *	12,13	
A	----- JP S54 32868 U (ANONYMOUS) 3 March 1979 (1979-03-03) * figures 1,3 *	1	
A	----- JP H08 233445 A (TOSHIBA CORP) 13 September 1996 (1996-09-13) * figures 1-4 *	1,3	
A	----- JP S58 110792 U (ANONYMOUS) 28 July 1983 (1983-07-28) * figures 1-3 *	1	
	----- -/--		
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 17 December 2013	Examiner Correia dos Reis, I
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	

 4
EPO FORM 1503 03.92 (P04C01)



EUROPEAN SEARCH REPORT

Application Number
EP 11 17 7181

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	US 2006/143860 A1 (PARK EUN-SEONG [KR] ET AL) 6 July 2006 (2006-07-06) * paragraph [0064] - paragraph [0068] * * figure 6 * -----	1,11	
			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 17 December 2013	Examiner Correia dos Reis, I
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			

4
EPO FORM 1503 03.82 (P04C01)

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

EP 11 17 7181

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.

17-12-2013

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2009043696 A1	09-04-2009	CN 101398248 A WO 2009043696 A1	01-04-2009 09-04-2009
JP 2000097554 A	04-04-2000	JP 3749023 B2 JP 2000097554 A	22-02-2006 04-04-2000
US 2010033067 A1	11-02-2010	DE 102009033049 A1 KR 20100019616 A US 2010033067 A1	04-03-2010 19-02-2010 11-02-2010
US 2006168760 A1	03-08-2006	AU 2003283087 A1 BR 0205141 A EP 1565636 A1 MX PA05005652 A NZ 540291 A US 2006168760 A1 WO 2004048729 A1	18-06-2004 29-06-2004 24-08-2005 16-08-2005 27-07-2007 03-08-2006 10-06-2004
JP S62141181 U	05-09-1987	NONE	
JP S5432868 U	03-03-1979	NONE	
JP H08233445 A	13-09-1996	NONE	
JP S58110792 U	28-07-1983	NONE	
US 2006143860 A1	06-07-2006	CN 1837723 A EP 1679481 A2 KR 20060080856 A US 2006143860 A1	27-09-2006 12-07-2006 11-07-2006 06-07-2006