

(11) **EP 2 584 297 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 27.09.2017 Bulletin 2017/39

(51) Int Cl.: F25D 23/02 (2006.01)

(43) Date of publication A2: **24.04.2013 Bulletin 2013/17**

(21) Application number: 12189144.4

(22) Date of filing: 18.10.2012

(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

(30) Priority: 21.10.2011 KR 20110107889 15.05.2012 KR 20120051474

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

(72) Inventors:

 Lee, Byung Kil Gwangju (KR)

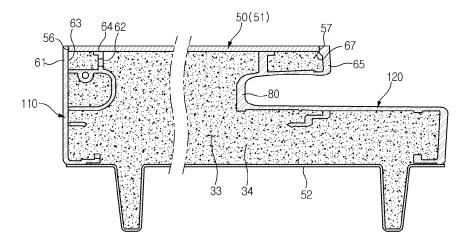
- Ju, Jae Hung Jeollanam-do (KR)
- Kim, Sang Hyun Gwangju (KR)
- Lim, Jae Hoon Gyeonggi-do (KR)
- Lee, Yong Eun Busan (KR)
- Heo, Nam Woon Gwangju (KR)
- (74) Representative: Walaski, Jan Filip et al Venner Shipley LLP 200 Aldersgate London EC1A 4HD (GB)

(54) Refrigerator and Door for the Same

(57) A door for a refrigerator having a reduced number of constituent elements, resulting in reduction in material and processing costs as well as manufacturing time is provided. The door may include a reinforced glass panel defining a front surface, a pair of lateral frames to support the reinforced glass panel, a rear panel defining a rear surface, a pair of caps including upper and lower caps, and a foam charged into an interior space of the

door to couple the reinforced glass panel, lateral frames, rear panel and caps to one another. Each lateral frame comes into contact with two surfaces including a lateral surface and a rear surface of the reinforced glass panel to support the reinforced glass panel. Also, each lateral frame may be formed via extrusion molding of PVC synthetic resin and is painted via liquid painting.

FIG. 5



EP 2 584 297 A3



EUROPEAN SEARCH REPORT

DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document with indication, where appropriate,

Application Number

EP 12 18 9144

CLASSIFICATION OF THE

10	

5

15

20

25

35

30

40

45

50

55

Category	of relevant pass	ages	to claim	APPLICATION (IPC)
Υ	WO 2009/080494 A1 (HAUSGERAETE [DE]; S MARIA [ES];) 2 July * page 5, line 10 - figures 1,2,3 *	ADABA CHALEZQUER JOSE 2009 (2009-07-02)	1-15	INV. F25D23/02
Υ	ET AL) 15 November	HARDSON RICHARD J [US] 1994 (1994–11–15) 0 – page 8, line 2 *	1-15	
А	CHOI 0-BO) 26 Octob	LG ELECTRONICS INC (R]; KIM JAE-YUNG [KR]; er 2006 (2006-10-26) - page 20, paragraph 4	1-15	
A	US 2011/089790 A1 (AL) 21 April 2011 (* the whole documen		1-15	
				TECHNICAL FIELDS
				SEARCHED (IPC)
				F25D
	The present search report has I	oeen drawn up for all claims	1	
	Place of search	Date of completion of the search	1	Examiner
	Munich	17 August 2017	Jes	sen, Flemming
X : part Y : part docu A : tech	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with anot ument of the same category inological background	L : document cited for	cument, but publice n the application or other reasons	
O : non	-written disclosure rmediate document	& : member of the sa document		

EP 2 584 297 A3

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

EP 12 18 9144

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.

17-08-2017

	Patent document ed in search report		Publication date		Patent family member(s)		Publication date
WO	2009080494	A1	02-07-2009	CN CN DE EP EP ES PL RU WO	101918778 104279819 202008017933 2203700 2223030 2472206 2335170 2223030 2010128468 2009080494	A U1 A1 A1 A1 A1 T3 A	15-12-2010 14-01-2015 02-12-2010 07-07-2010 01-09-2010 04-07-2012 22-03-2010 31-01-2017 27-01-2012
US	5363611	A	15-11-1994	AT AU DE DE DK EP ES JP US US WO	3729293 69325170	D1 T2 T3 A1 T3 B2 A A	15-06-1999 05-10-1993 08-07-1999 23-09-1999 13-12-1999 04-01-1995 16-10-1999 22-07-2003 24-08-1995 15-11-1994 13-08-1996 16-09-1993
WO	2006112633	A1	26-10-2006	AU EP US WO	2006237838 1872070 2008042537 2006112633	A1 A1	26-10-2006 02-01-2008 21-02-2008 26-10-2006
US	2011089790	A1	21-04-2011	CN DE KR US	102042734 102010042623 20110042786 2011089790	A1 A	04-05-2011 05-05-2011 27-04-2011 21-04-2011

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