



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
21.01.2015 Bulletin 2015/04

(51) Int Cl.:
F25D 17/04 ^(2006.01)

(43) Date of publication A2:
29.05.2013 Bulletin 2013/22

(21) Application number: **12183434.5**

(22) Date of filing: **07.09.2012**

(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

(72) Inventors:
• **Kahraman, Volkan
Manisa (TR)**
• **Devrim, Bora
Izmir (TR)**

(30) Priority: **22.11.2011 TR 201111528**

(74) Representative: **Iskender, Ibrahim
Destek Patent, Inc.
Lefkose Cad. NM Ofis Park
B Block No: 36/5 Besevler
16110 Bursa (TR)**

(71) Applicant: **Indesit Company Beyaz Esgya Sanayi ve
Ticaret Anonim Sirketi
Manisa (TR)**

(54) **Mechanism for pressure balancing**

(57) Present invention relates to a mechanism for pressure balancing (2), activated by using the movement of the doors (11) pulled towards the refrigerator(1)/freezer (3) body under the influence of the vacuum formed due to the pressure difference resulting from the inflow of the air into said refrigerator(1)/freezer(3), as a result of opening and closing of the refrigerator(1)/freezer (3) doors (11), and enabling opening of the door (11) without exerting a force greater than the normal one by allowing inflow of the air into the refrigerator(1)/freezer (3) section until inner and outer pressures are balanced, comprising at least an air duct (21) through which the ambient air proceeds to be conveyed into the refrigerator (1)/freezer (3) by the action of the pulled door as a result of the vacuum formed upon opening and closing of said door (11), at least a movable piece (23) constituting the air inlet of said air duct (21), at least a pushing part connected on the door (11), enabling conveyance of the ambient air into the refrigerator(1)/freezer (3) through the formed opening by pushing said (26) movable piece (23) towards the air duct (21), at least a spring (22) enabling the movable piece that is pushed by said pushing piece (26) to head for backwards and enabling the movable piece (23) to cover the air duct (21) inlet by taking its initial position once the pressure balance is achieved.

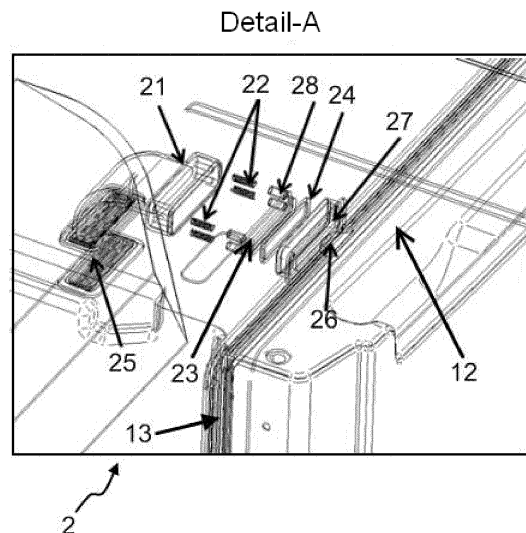


Figure-2



EUROPEAN SEARCH REPORT

Application Number
EP 12 18 3434

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 H06 137750 A (SANYO ELECTRIC CO) 20 May 1994 (1994-05-20) * abstract; figures 1, 2, 3, 4 *	1-6	INV. F25D17/04
A	US 5 702 168 A (SHIN JUN-CHUL [KR]) 30 December 1997 (1997-12-30) * abstract; figures 7, 8 *	1-6	
			TECHNICAL FIELDS SEARCHED (IPC)
			F25D
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 15 December 2014	Examiner Yousufi, Stefanie
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 12 18 3434

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.

15-12-2014

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP H06137750 A	20-05-1994	JP 3229671 B2 JP H06137750 A	19-11-2001 20-05-1994
US 5702168 A	30-12-1997	CN 1151511 A GB 2305455 A US 5702168 A	11-06-1997 09-04-1997 30-12-1997

EPO FORM P0459

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