# (11) **EP 2 423 624 A3**

(12)

## **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3: 11.12.2013 Bulletin 2013/50

(51) Int Cl.: **F25D 17/06** (2006.01)

(43) Date of publication A2: 29.02.2012 Bulletin 2012/09

(21) Application number: 11174512.1

(22) Date of filing: 19.07.2011

(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:

Designated Extension State

**BA ME** 

(30) Priority: 27.08.2010 TR 201007211

(71) Applicant: Vestel Beyaz Esya Sanayi ve Ticaret A.S.

45030 Manisa (TR)

(72) Inventors:

• Turan, Halil 45030 Manisa (TR)

 Asik, Rüstem 45030 Manisa (TR)

(74) Representative: Cayli, Hülya Paragon Consultancy Inc. Koza Sokak No: 63/2

> 06540 G.O.P. Ankara (TR)

### (54) A cooling device

(57)The cooling device (S) developed by present invention comprises at least one chamber (5); one carrier element (12) placed in the chamber (5); one compressor (1) and one evaporator (4) which cools said chamber (5); one air blowing unit (11) canalizing air cooled in the evaporator (4) to the chamber (5) by means of at least one air channel (7); one separator (10), which is provided in the channel (7), and then separates said channel (7) into at least two portion as air forward channel (7a) and air return channel (7b); one air inlet (8), which is in connection with the air forward channel (7a) transferring air coming from the evaporator (4) to the chamber (5); one air outlet (9), which is in connection with air return channel (7b) transferring hot air coming from the chamber (5) to the evaporator (4).

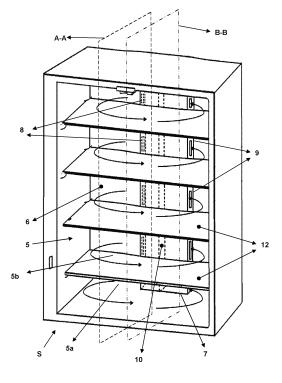


Figure 2

EP 2 423 624 A3



#### **EUROPEAN SEARCH REPORT**

Application Number EP 11 17 4512

**DOCUMENTS CONSIDERED TO BE RELEVANT** CLASSIFICATION OF THE APPLICATION (IPC) Citation of document with indication, where appropriate, Relevant Category of relevant passages to claim EP 1 873 468 A2 (DOMETIC SWEDEN AB [SE]) 2 January 2008 (2008-01-02) 1-4 INV. F25D17/06 \* abstract; figures 1-4 \* 5 5 Υ DE 20 2005 009581 U1 (GEIGER JOHANN [DE]) 13 October 2005 (2005-10-13) \* abstract; figures 1, 2 \* 1-4 Α US 3 982 584 A (SPANOUDIS LOUIS) Χ 1,2,4 28 September 1976 (1976-09-28) \* abstract; figures 1-10 \* WO 2009/023942 A2 (WHIRLPOOL SA [BR]; UNIV 1-5 FED DE SANTA CATARINA UFS [BR]; WASNIEVSKI Α DA) 26 February 2009 (2009-02-26) \* abstract; figure 11 \* KR 2000 0018475 A (SAMSUNG ELECTRONICS CO LTD) 6 April 2000 (2000-04-06) Α \* figure 3 \* TECHNICAL FIELDS SEARCHED (IPC) F25D

1503 03.82

1

CATEGORY OF CITED DOCUMENTS

The present search report has been drawn up for all claims

X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background

The Hague

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

Yousufi, Stefanie

Date of completion of the search 4 November 2013

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

EP 11 17 4512

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.

04-11-2013

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1873468	A2	02-01-2008	EP 1873468 A2 JP 2008008610 A US 2007295024 A1	02-01-200 17-01-200 27-12-200
DE 202005009581	U1	13-10-2005	NONE	
US 3982584	Α	28-09-1976	NONE	
WO 2009023942	A2	26-02-2009	BR PI0705750 A2 WO 2009023942 A2	14-04-200 26-02-200
KR 20000018475	 А	06-04-2000	NONE	

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

FORM P0459