



Europäisches
Patentamt
European
Patent Office
Office européen
des brevets



(11)

EP 2 716 983 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
11.04.2018 Bulletin 2018/15

(51) Int Cl.:
F24F 1/34 (2011.01)
F24F 1/42 (2011.01)
F24F 13/22 (2006.01)
F24F 1/32 (2011.01)

(43) Date of publication A2:
09.04.2014 Bulletin 2014/15

(21) Application number: 13186990.1

(22) Date of filing: 02.10.2013

(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: 04.10.2012 JP 2012222320

(71) Applicant: **MITSUBISHI HEAVY INDUSTRIES
THERMAL SYSTEMS, LTD.**
Tokyo 108-8215 (JP)

(72) Inventors:

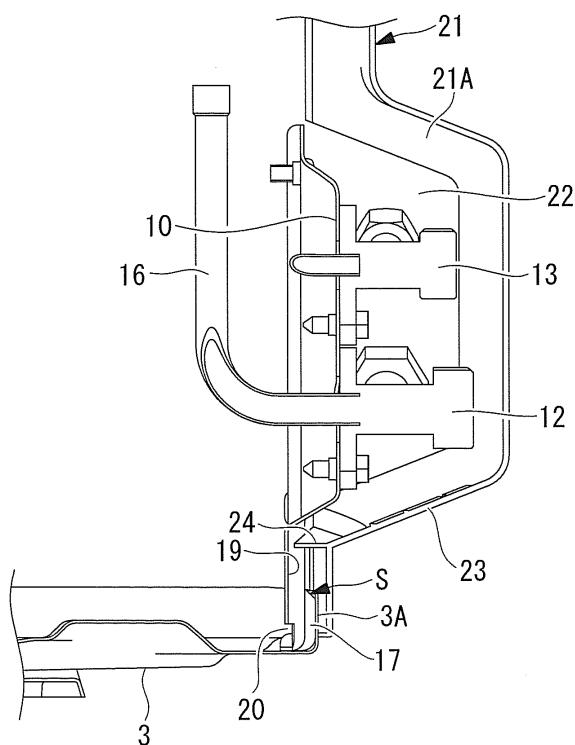
- Yamaguchi, Tomomitsu
Tokyo, 108-8215 (JP)
- Naito, Yasuhiro
Tokyo, 108-8215 (JP)
- Mori, Hironori
Tokyo, 108-8215 (JP)

(74) Representative: **Intès, Didier Gérard André et al
Cabinet Beau de Loménie
158 rue de l'Université
75340 Paris Cedex 07 (FR)**

(54) Air conditioner outdoor unit

(57) In this air conditioner outdoor unit, an operating-valve bracket (10) provided with operating valves (12, 13) is installed on a baseplate (3) of the outdoor unit, and a service cover (21) is provided at an outer surface side of the operating-valve bracket (10). A drainage portion (23) for collecting drainage water produced in the service cover (21) and allowing the drainage water to flow into the baseplate (3) is provided at a position in the service cover (21) which is lower than the operating valves (12, 13), and a concave portion (19) and a notch (20) for allowing the drainage water discharged from the drainage portion (23) to flow into the baseplate (3) are provided at a lower portion and a lower end of the operating-valve bracket (10), opposed to the drainage portion (23).

FIG. 5





EUROPEAN SEARCH REPORT

Application Number

EP 13 18 6990

5

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
10 X	JP 2010 281461 A (SHARP KK) 16 December 2010 (2010-12-16) * the whole document * -----	1-4	INV. F24F1/34 F24F1/26 F24F1/42 F24F13/22
15 X	JP H05 133565 A (MATSUSHITA ELECTRIC IND CO LTD) 28 May 1993 (1993-05-28) * the whole document * -----	1-4	F24F1/32
20 A	JP 2005 055127 A (DAIKIN IND LTD) 3 March 2005 (2005-03-03) * the whole document * -----	4	
25			
30			TECHNICAL FIELDS SEARCHED (IPC)
35			F24F
40			
45			
50 1	The present search report has been drawn up for all claims		
55	Place of search Munich	Date of completion of the search 1 March 2018	Examiner Lienhard, Dominique
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			

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

EP 13 18 6990

5 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.

01-03-2018

10	Patent document cited in search report	Publication date	Patent family member(s)	Publication date
15	JP 2010281461 A	16-12-2010	NONE	
20	JP H05133565 A	28-05-1993	NONE	
25	JP 2005055127 A	03-03-2005	JP 3922232 B2 JP 2005055127 A	30-05-2007 03-03-2005
30				
35				
40				
45				
50				
55				

EPO FORM P0459

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