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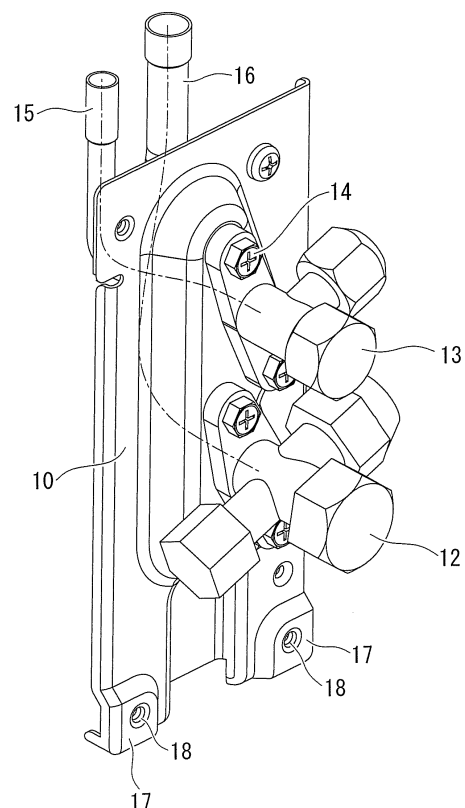
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(54) **Air conditioner outdoor unit**

(57) In this air conditioner outdoor unit in which a flange portion is provided on a periphery of a baseplate so as to extend vertically upward from the periphery, and an operating-valve bracket (10) is fixed to the flange portion, a pair of dish-shaped projection portions 17, having a predetermined distance therebetween, are provided at one of fastening sites on the operating-valve bracket (10) which are to be fixed to the flange portion and fastening sites on the flange portion which are to be fixed to the operating-valve bracket, so as to project from a side surface thereof toward a side surface of the other by a certain dimension; a certain space is formed between the side surfaces of the operating-valve bracket (10) and the flange portion by the dish-shaped projection portions (17); and the operating-valve bracket (10) is fixed to the flange portion.

FIG. 3





EUROPEAN SEARCH REPORT

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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 2010 281461 A (SHARP KK) 16 December 2010 (2010-12-16) * the whole document *	1-4	INV. F24F1/26 F24F1/34 F24F1/42
X	JP 2005 055127 A (DAIKIN IND LTD) 3 March 2005 (2005-03-03) * the whole document *	1-4	F24F13/22 F24F1/32 F24F1/56
A	JP H05 133565 A (MATSUSHITA ELECTRIC IND CO LTD) 28 May 1993 (1993-05-28) * the whole document *	1-4	
A	JP H06 341680 A (SHARP KK) 13 December 1994 (1994-12-13) * the whole document *	1-4	
			TECHNICAL FIELDS SEARCHED (IPC)
			F24F
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 12 February 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	

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

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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12-02-2018

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2010281461 A	16-12-2010	NONE	
JP 2005055127 A	03-03-2005	JP 3922232 B2 JP 2005055127 A	30-05-2007 03-03-2005
JP H05133565 A	28-05-1993	NONE	
JP H06341680 A	13-12-1994	NONE	

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