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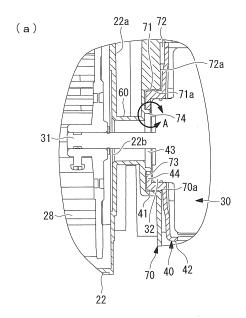
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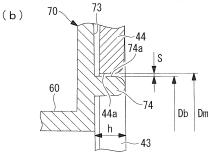
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(54) INDOOR UNIT AND AIR CONDITIONER

(57)Provided is an indoor unit (20) that has a shaft-portion air shielding structure of a cross-flow fan which does not adversely affect the vibration-isolating performance of a vibration-isolating member. In an indoor unit, a ring-shaped protruding portion (74) that is provided at a side-wall surface (73) of the motor-installing portion (70) so as to protrude therefrom in a motor-installing direction and a vibration-isolating-member receiving portion (44) in which an end portion of the motor bracket (40) is bent in a direction of a motor-shaft center are provided. Between an outer-circumferential surface (74a) of the ring-shaped protruding portion (74) and a distal-end surface (44a) of the vibration-isolating-member receiving portion (44), a minute gap (S) is formed, and a protruding height (h) of the ring-shaped protruding portion (74) is set so as not to be in contact with a vibration-isolating member (32).

FIG. 1





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PARTIAL EUROPEAN SEARCH REPORT

Application Number

under Rule 62a and/or 63 of the European Patent Convention. This report shall be considered, for the purposes of subsequent proceedings, as the European search report

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		ered to be relevant	Relevant	CLASSIFICATION OF THE			
Category	of relevant pass		to claim	APPLICATION (IPC)			
A,D	JP 2004 144318 A (M CORP) 20 May 2004 (* the whole documer	(2004-05-20)	4	INV. F24F13/24 F24F1/00			
Ą	JP 2008 121688 A (D 29 May 2008 (2008-6 * abstract *	1,4					
Ą	JP H10 61964 A (FUJ 6 March 1998 (1998- * abstract *						
4	JP 2007 120836 A (M CORP) 17 May 2007 (* abstract *	1,4					
				TECHNICAL FIELDS SEARCHED (IPC)			
				F24F			
INCO	MPLETE SEARCH						
	ch Division considers that the present ly with the EPC so that only a partial s						
Claims se	earched completely :						
Claims se	earched incompletely :						
Claims no	ot searched :						
Reason f	or the limitation of the search						
Reason for the limitation of the search: See Sheet C							
	Place of search	Date of completion of the search		Examiner			
	Munich	15 June 2016	lie	enhard, Dominique			
CATEGORY OF CITED DOCUMENTS T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filling date Y: particularly relevant if combined with another document of the same category L: document cited for other reasons							
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INCOMPLETE SEARCH SHEET C

Application Number

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	Claim(s) completely searchable: 1, 4				
10	Claim(s) not searched: 2, 3				
	Reason for the limitation of the search:				
15	The search has been restricted to the subject-matter indicated by the applicant in his letter of date 27th April 2016 filed in reply to the invitation pursuant to Rule 62a(1) EPC. Hence the search report and the written opinion have been drawn up on the basis of claims 1 and 4 (which depends on 1).				
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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. 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.

15-06-2016

10	Patent document cited in search report	Publication date	Patent family member(s)	Publication date
	JP 2004144318 A	20-05-2004	JP 3846583 B2 JP 2004144318 A	15-11-2006 20-05-2004
15	JP 2008121688 <i>F</i>	29-05-2008	JP 4618292 B2 JP 2008121688 A	26-01-2011 29-05-2008
	JP H1061964 #	06-03-1998	NONE	
20	JP 2007120836 A	A 17-05-2007	JP 4513718 B2 JP 2007120836 A	28-07-2010 17-05-2007
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30				
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35				
40				
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55 G				
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82