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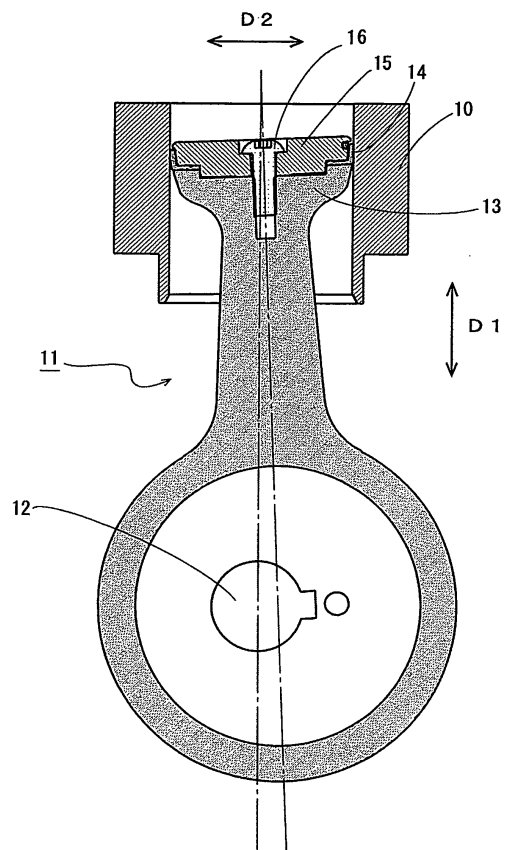
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(54) **Compressor and operation method of compressor**

(57) A compressor is provided with: a motor (30); a piston rod (11) which is driven by the motor (30) and reciprocable within a cylinder (10); a seal member (14) adapted to seal between the piston rod (11) and the cylinder (10); a cold state determining unit (110) adapted to determine whether the compressor is in a cold state or not; and a rotating speed control unit (120) adapted to control a rotating speed of the motor (30) to increase so that a warm-up operation is executed when the cold state determining unit (110) determines that the compressor is in the cold state.

**FIG. 1**





## EUROPEAN SEARCH REPORT

Application Number  
EP 11 00 9552

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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)
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Y	JP H09 68279 A (AISIN SEIKI) 11 March 1997 (1997-03-11) * paragraphs [0004], [0005], [0017] - [0033]; figures 1,2 *	1-15	
Y	JP 2003 090287 A (EBARA CORP) 28 March 2003 (2003-03-28) * paragraphs [0021] - [0029]; figure 2 *	1-15	
			TECHNICAL FIELDS SEARCHED (IPC)
			F04B
The present search report has been drawn up for all claims			
Place of search <b>Munich</b>		Date of completion of the search <b>13 October 2017</b>	Examiner <b>Jurado Orenes, A</b>
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.**

EP 11 00 9552

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  
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