

12 **EUROPEAN PATENT APPLICATION**

21 Application number: 81830119.4

51 Int. Cl.<sup>3</sup>: F 04 B 39/12

22 Date of filing: 15.07.81

30 Priority: 31.07.80 IT 6822980

43 Date of publication of application:  
17.02.82 Bulletin 82/7

88 Date of deferred publication of search report: 24.03.82

84 Designated Contracting States:  
CH DE FR GB LI NL SE

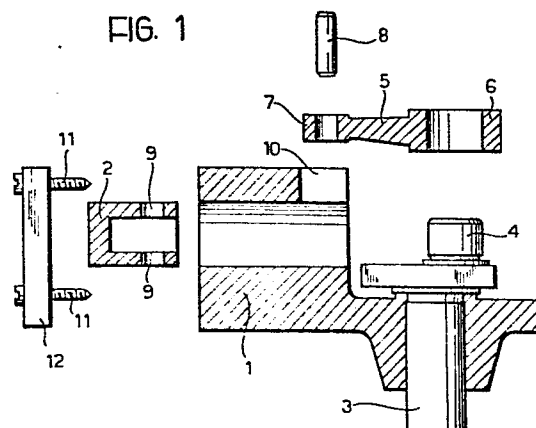
71 Applicant: INDESIT INDUSTRIA ELETTRODOMESTICI  
ITALIANA S.p.A.  
Str. Piosasco Km 17  
I-10040 Rivalta Turin(IT)

72 Inventor: Forghieri, Fausto  
Viale Lincoln 120  
I-81100 Caserta(IT)

74 Representative: Jacobacci, Filippo et al,  
c/o Jacobacci-CASSETTA & PERANI S.p.A. Via Alfieri 17  
I-10121 Torino(IT)

54 **Motor-driven compressor unit particularly for airtight compressors on fluid compressing or refrigerating machines.**

57 The present invention relates to a motor-driven compressor unit, particularly for airtight compressors on refrigerating machines, comprising a main part (1), a crankshaft (3) which rotates in a first seat in the main part (1) and the crank pin (4) of which constitutes one end of the shaft, a piston (2) which slides in a second seat in the main part (1), and a single-piece connecting rod (5) coupled directly to the crank pin (4) with no parts inbetween and to the piston (2) by means of a pin (8). In one arrangement of the present invention, an opening (10) is made in the piston slide seat nearest the crank pin (4) so that parts may be assembled in the following order: crankshaft (3) in the main part (1) with the crank pin (4) in the bottom dead centre position; connecting rod (5) straight inside the crank pin (4) through the said opening (10); piston (2) in the cylindrical seat; pin (8) in the piston (2) and connecting rod (5). Besides making assembly easier, this arrangement reduces the number of component parts required as well as friction and total weight.





European Patent  
Office

# EUROPEAN SEARCH REPORT

0046142

Application number

EP 81 83 0119

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	<p><u>GB - A - 916 359</u> (THOMSON-HOUSTON)</p> <p>* page 1, line 60 to page 2, line 19 *</p> <p>---</p>	<p>1,2, 11,12, 13</p>	F 04 B 39/12
X	<p><u>DE - A - 2 336 548</u> (STÖCKEL)</p> <p>* page 3, lines 2-8; figure 4 *</p> <p>---</p>	<p>1,4, 11,13</p>	
	<p><u>FR - A - 2 176 271</u> (GLADIEUX)</p> <p>* page 2, lines 13-18 *</p> <p>---</p>	<p>5,6,8, 9,10, 13</p>	
	<p><u>FR - A - 1 235 771</u> (ROGERS)</p> <p>* page 1, column 2, line 12 to page 2, column 2, line 10 *</p> <p>---</p>	<p>7,9, 10,13</p>	<p>TECHNICAL FIELDS SEARCHED (Int. Cl. 3)</p> <p>F 04 B F 02 B F 16 J B 23 P</p>
	<p><u>GB - A - 684 298</u> (BENDIX)</p> <p>* page 2, lines 7-61 *</p> <p>---</p>	<p>5,6,8, 9,10, 13</p>	
	<p><u>GB - A - 954 003</u> (STAL)</p> <p>* page 2, lines 5-25; figures 1,3-6 *</p> <p>---</p>	<p>7,9, 10,13</p>	
	<p><u>DE - C - 316 462</u> (BRUNKE)</p> <p>* page 2, lines 27-93; figures 1-4 *</p> <p>-----</p>	<p>5,6,8, 9,10, 13</p>	<p>CATEGORY OF CITED DOCUMENTS</p> <p>X: particularly relevant A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: conflicting application D: document cited in the application L: citation for other reasons</p>
<p>The present search report has been drawn up for all claims</p>			<p>&amp; member of the same patent family. corresponding document:</p>
<p>Place of search The Hague</p>		<p>Date of completion of the search 17.12.1981</p>	<p>Examiner BAATH</p>