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(54) Title: ROTARY AIR MOTOR LOCKING ASSEMBLY

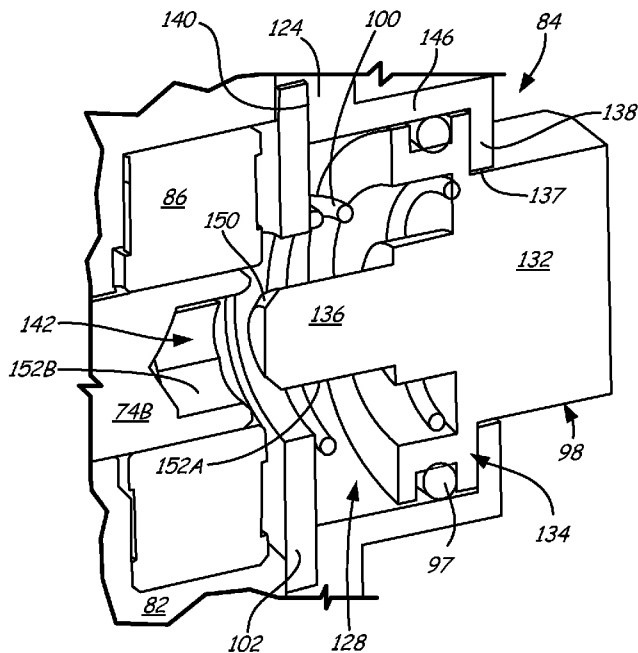


Fig. 6

(57) Abstract: A rotary vane air motor locking as-  
sembly comprises an annular stator housing, first and  
second end plates, a rotor vane assembly and a locking  
mechanism. The stator housing extends between first  
and second axial ends to define a rotor pocket. The first  
and second end plates are disposed at the first and  
second axial ends of the stator housing, respectively.  
The rotor vane assembly is disposed in the rotor pocket  
and comprises a rotor having an axis of rotation, a plur-  
ality of slots disposed within the rotor and a plurality  
of vanes disposed within the plurality of slots. The locking  
mechanism is coupled to the second end plate to select-  
ively immobilize rotation of the rotor vane assembly  
within the annular stator housing by engaging the rotor  
vane assembly.

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**A. CLASSIFICATION OF SUBJECT MATTER***F01C 21/04(2006.01)i, F01C 1/344(2006.01)i, H02K 7/12(2006.01)i, B26B 17/00(2006.01)i*

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

H02K 7/12; F01C 21/04; B26B 17/00; F01C 21/00; F01C 1/344; F01C 21/16; B25F 3/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) &amp; Keywords: rotary vane air motor, locking mechanism, anti-rotation locking

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	KR 10-2009-0109092 A (N&G FACILITY MANAGEMENT GMBH Co., KG.) 19 October 2009 See the abstract, paragraphs 42-45, 49, 58-61 and figs. 1-2, 4.	1-2, 14 3, 10, 13 4-9, 11-12, 15-22
Y A	JP 2010-159688 A (NITTO KOHKI CO., LTD.) 22 July 2010 See the abstract, claim 1, paragraphs 8-10, 17-18, 20 and fig. 1.	3, 10, 13 1-2, 4-9, 11-12 , 14-22
A	JP 2001-509566 A (THERMO KING CORPORATION) 24 July 2001 See paragraphs 12-17 and fig. 2.	1-22
A	JP 11-280401 A (OSAKA GAS CO., LTD. et al.) 12 October 1999 See claim 1, paragraphs 17-22 and figs. 13-14.	1-22
A	US 04001935A A (KROHN, DUANE D. et al.) 11 January 1977 See the abstract and figs. 1-10.	1-22

 Further documents are listed in the continuation of Box C. See patent family annex.

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Information on patent family members

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