

Title (en)  
Structure for sensing refrigerant flow rate in a compressor

Title (de)  
Anordnung zur Messung des Kühlmitteldurchsatzes eines Verdichters

Title (fr)  
Structure pour détecter le débit de réfrigérant dans un compresseur

Publication  
**EP 1925821 A3 20081029 (EN)**

Application  
**EP 07119302 A 20071025**

Priority  
JP 2006309265 A 20061115

Abstract (en)  
[origin: EP1925821A2] A compressor connected to an external refrigerant circuit is disclosed. The compressor is provided with a housing, a passage forming member coupled to an outer surface of the housing, and a differential pressure type flow rate detector provided in the passage forming member. The flow rate detector obtains the pressure in an upstream passage and the pressure in a downstream passage to detect a refrigerant flow rate within the refrigerant passage. The flow rate detector is provided with an accommodation chamber, a partition body, a compression spring, and a spring seat defining a maximum stroke amount of the partition body. The spring seat exists closer to the passage forming member side than a partition surface comparing the housing and the passage forming member, and is in contact with the partition surface.

IPC 8 full level  
**F04B 27/18** (2006.01)

CPC (source: EP KR US)  
**F04B 27/1045** (2013.01 - KR); **F04B 27/1081** (2013.01 - KR); **F04B 27/1804** (2013.01 - EP KR US); **F04B 39/04** (2013.01 - KR); **F25B 49/022** (2013.01 - EP KR US); **F04B 2205/08** (2013.01 - EP KR US); **F05B 2210/12** (2013.01 - KR); **F05B 2210/14** (2013.01 - KR); **F05B 2280/4003** (2013.01 - KR); **F25B 2700/13** (2013.01 - EP KR US); **Y10S 417/00** (2013.01 - KR)

Citation (search report)

- [Y] EP 1429026 A2 20040616 - TOYOTA JIDOSHOKKI KK [JP]
- [Y] US 6914531 B1 20050705 - YOUNG RICHARD [US]
- [AD] JP 2004197679 A 20040715 - TOYOTA IND CORP

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**EP 07119302 A 20071025**; BR PI0704932 A 20071113; CN 200710186364 A 20071114; JP 2006309265 A 20061115; KR 20070115301 A 20071113; US 98317807 A 20071106