

Title (en)

SLIDING VANE CONTROL STRUCTURE FOR VARIABLE-CAPACITY AIR CYLINDER, VARIABLE-CAPACITY AIR CYLINDER AND VARIABLE-CAPACITY COMPRESSOR

Title (de)

GLEITSCHIEBERSTEUERUNGSSTRUKTUR FÜR LUFTZYLINDER MIT VARIABLER KAPAZITÄT, LUFTZYLINDER MIT VARIABLER KAPAZITÄT UND VERDICHTER MIT VARIABLER KAPAZITÄT

Title (fr)

STRUCTURE DE COMMANDE DE PALETTE COULISSANTE POUR CYLINDRE PNEUMATIQUE À CAPACITÉ VARIABLE, CYLINDRE PNEUMATIQUE À CAPACITÉ VARIABLE ET COMPRESSEUR À CAPACITÉ VARIABLE

Publication

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Application

**EP 16874597 A 20160914**

Priority

- CN 201510965018 A 20151218
- CN 2016099111 W 20160914

Abstract (en)

Provided is a sliding vane control structure for a variable-capacity cylinder, including a pin (113, 213) provided on a lower side of a sliding vane (11), the pin (113, 213) having a first position capable of stopping the sliding vane (11) and a second position capable of being separated from the sliding vane (11), wherein a low-pressure passage (115, 215) is provided under the pin (113, 213); and a surface seal structure is provided between the pin (113, 213) and the low-pressure passage (115, 215), and when the pin (113, 213) is at the second position, a surface seal is formed at a lower end of the pin (113, 213). Since the sliding vane control structure is provided with a surface seal structure, a seal effect of the surface seal is much better than that of a clearance seal, thereby greatly reducing a leakage of a refrigerant. Consequently, an efficiency of a compressor is increased when a variable-capacity cylinder is in a working mode, and a performance of the compressor is optimized. Also provided is the variable-capacity cylinder with the sliding vane control structure and a variable-capacity compressor.

IPC 8 full level

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CPC (source: CN EP KR)

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**F04C 27/005** (2013.01 - CN); **F04C 27/008** (2013.01 - EP); **F04C 28/06** (2013.01 - KR); **F04C 28/065** (2013.01 - CN EP);  
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