

Title (en)

Control valve for variable displacement compressor

Title (de)

Kontrollventil für einen verstellbaren Taumelscheibenkompressor

Title (fr)

Soupape de contrôle pour un compresseur à capacité variable

Publication

EP 1420162 A3 20040915 (EN)

Application

EP 03025917 A 20031112

Priority

JP 2002330720 A 20021114

Abstract (en)

[origin: EP1420162A2] A variable displacement compressor optionally varies displacement based upon pressure in a crank chamber for adjusting the pressure in the crank chamber by varying an opening degree of a passage that interconnects the crank chamber and one of relatively high and low pressure regions of the refrigeration cycle. A control valve of the variable displacement compressor has a valve seat and a valve. The valve seat has a seat surface for adjusting the opening degree of the passage. The valve has a valve surface for adjusting the opening degree of the passage. At least one of the seat surface and the valve surface is made of a material with relatively high hardness. <IMAGE>

IPC 1-7

F04B 27/18; **F04B 53/10**

IPC 8 full level

F04B 27/14 (2006.01); **F04B 27/08** (2006.01); **F04B 27/18** (2006.01); **F04B 39/16** (2006.01)

CPC (source: EP KR US)

F04B 27/14 (2013.01 - KR); **F04B 27/1804** (2013.01 - EP US); **F04B 39/16** (2013.01 - EP US); **F04B 2027/1813** (2013.01 - EP US); **F04B 2027/1827** (2013.01 - EP US); **F04B 2027/185** (2013.01 - EP US); **F04B 2027/1895** (2013.01 - EP US); **F04B 2205/05** (2013.01 - EP US); **F05C 2201/0406** (2013.01 - EP US); **F05C 2201/0466** (2013.01 - EP US); **F05C 2201/0475** (2013.01 - EP US); **F05C 2253/12** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 03025917 A 20031112; BR 0305196 A 20031113; CN 200310120943 A 20031113; JP 2002330720 A 20021114; KR 20030062498 A 20030908; US 71291003 A 20031112