

Title (en)

Displacement control valve for variable displacement compressor

Title (de)

Regelventil für einen Kompressor mit veränderlicher Verdrängung

Title (fr)

Souape de contrôle pour compresseur à capacité variable

Publication

EP 1612420 A2 20060104 (EN)

Application

EP 05013509 A 20050622

Priority

- JP 2004291724 A 20041004
- JP 2004253450 A 20040831
- JP 2004190005 A 20040628

Abstract (en)

A displacement control valve for a variable displacement compressor includes a first valve hole (36) forming a part of a supply passage and a second valve hole (37) forming a part of a discharge passage. Displacement of a reciprocating body is transmitted to each of first (39) and second (40) valve bodies so that each valve body opens or closes the corresponding valve hole. When the reciprocating body is within a predetermined displacement range, a double closing state occurs, in which the first valve body closes the first valve hole (36) and the second valve body closes the second valve hole (37). When the reciprocating body is out of the displacement range, a single closing state occurs. Therefore, the control valve prevents the first valve hole (36) from opening concurrently with the second valve hole (37).

IPC 8 full level

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CPC (source: EP US)

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DE FR IT

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