

Title (en)  
Displacement control valve for use in variable displacement compressor

Title (de)  
Kontrollventil zur Kapazitätseinstellung eines Verstellkompressors

Title (fr)  
Soupape de contrôle d'un compresseur à capacité variable

Publication  
**EP 0945617 A3 20000202 (EN)**

Application  
**EP 99105008 A 19990319**

Priority  
JP 10036698 A 19980327

Abstract (en)  
[origin: EP0945617A2] For use in a variable displacement compressor having a first and a second passage which are between a crank chamber and a suction chamber and between a discharge chamber and the crank chamber, respectively, a displacement control valve is provided with a first and a second valve mechanism for adjusting opening degrees of the first and the second passages. The second valve mechanism has a valve body which is placed in the second passage and movable in a predetermined direction for opening and closing the second passage with movement thereof in the predetermined direction. The second valve mechanism is provided with a pressure canceling arrangement for making the valve body be canceled with influence of pressure of the second passage in the predetermined direction. A pressure sensing member senses pressure in the first passage. Responsive to the pressure sensed by the pressure sensing member, the first valve mechanism adjusts the opening degree of the first passage. Responsive to an operation of the first valve mechanism, the second valve mechanism adjusts the opening degree of the second passage. Responsive to an external signal, an external operation mechanism operates the first and the second valve mechanisms. <IMAGE>

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**F04B 27/18**

IPC 8 full level  
**F04B 27/14** (2006.01); **F04B 27/18** (2006.01); **F04B 49/08** (2006.01)

CPC (source: EP)  
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Citation (search report)

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