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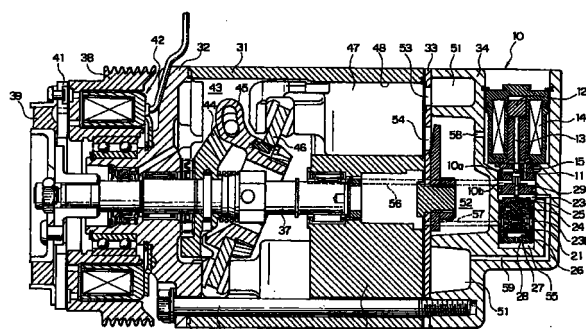
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### (54) Displacement control valve for use in variable displacement compressor

(57) 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.



**FIG. 3**

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# EUROPEAN SEARCH REPORT

Application Number  
EP 99 10 5008

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Place of search THE HAGUE		Date of completion of the search 13 December 1999	Examiner Ingelbrecht, P
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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