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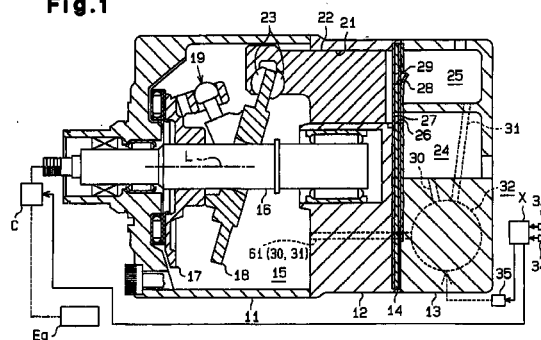
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(54) **Displacement control valve for variable displacement type compressors**

(57) A control valve for a variable displacement type compressor includes a movable body (43) supported by the housing (38) such that the movable body (43) moves in the housing (38). The movable body (43) includes a first valve hole (46) that forms part of a bleed passage (30). A first valve body (41) adjusts the opening of the first valve hole (46). The first valve body (41) abuts against the movable body (43) such that the first valve hole (46) is closed. A second valve hole (49) extends in the housing (38) and forms part of a supply passage (31). A second valve body (48) adjusts the opening of the second valve hole (49). The second valve body (48) is movable integrally with the movable body (43). When the movable body (43) is located at an initial position, the second valve body (48) closes the second valve hole (49). However, when the first valve body (41) separates the movable body (43) from the initial position while abutting against the movable body (43), the second valve body (48) is moved to open the second valve hole (49). In this control valve, the first valve hole (46) and the second valve hole (49) are never open at the same time. Furthermore, the control valve controls the compressor displacement with high accuracy and an responsiveness.

Fig.1



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EUROPEAN SEARCH REPORT

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
D,A	US 5 332 365 A (TAGUCHI YUKIHIKO) 26 July 1994 (1994-07-26) * abstract * * column 4, line 66 - column 8, line 52 * * column 13, line 23 - column 15, line 33; figures 1-3,7 *	1,3-9,13	F04B27/18
A	--- EP 0 498 552 A (SANDEN CORP) 12 August 1992 (1992-08-12) * abstract * * column 19, line 26 - column 32, line 44; figures 3-6 *	1,4-9,13	
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A	--- US 4 860 549 A (MURAYAMA KOJI) 29 August 1989 (1989-08-29) * abstract * * column 5, line 37 - column 6, line 36 * * figure 2 *	1,4-6,8,9	TECHNICAL FIELDS SEARCHED (Int.Cl.7) F04B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 21 November 2000	Examiner Kolby, L
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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**ANNEX TO THE EUROPEAN SEARCH REPORT
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