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(54) Variable-displacement swash-plate compressor

(57) A variable-displacement swash-plate compressor comprising a cylinder housing (101) having a plurality of cylinder bores (122) and a crank chamber (110) in which a swash plate (113) is disposed to be coupled to a drive shaft (109) with a variable slant angle for driving pistons (123) slidably fitted into the cylinder bores (122), a cylinder head mounted on the cylinder housing (101) and having a suction chamber (132) and a discharge chamber (133) selectively connected to the cylinder bores (122), and a crank chamber pressure control system for controlling an inner pressure of the crank chamber (110) to control the slant angle of the swash plate (113) to thereby control a fluid displacement volume of

the compressor, by detecting the crank chamber pressure by use of a pressure detector (142) disposed in a pressure detecting chamber (140) formed in the cylinder head (131) and communicating with the crank chamber (110) through a communicating path (156). In order to simplify provision of the communicating path, a communicating member (155) having a through hole (156) extending therethrough is assembled to be disposed bridging between the cylinder housing (100) and the cylinder head (131), the through hole providing the communicating path to communicate the crank chamber (110) with the pressure detecting chamber (140).

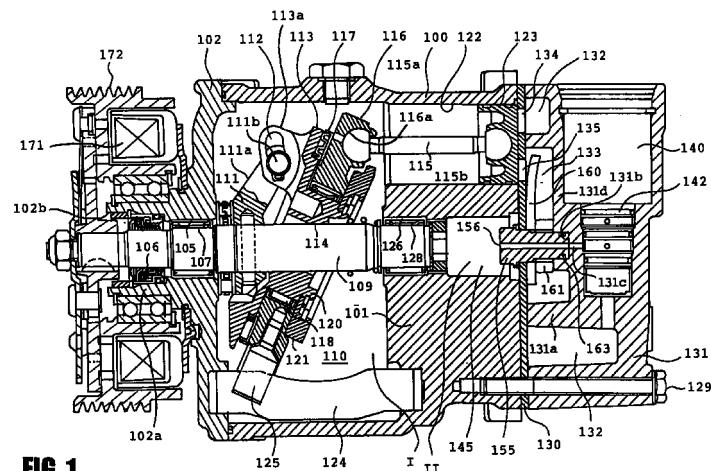


FIG. 1



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	EP 0 498 552 A (SANDEN CORP) 12 August 1992 * column 14, line 9 - column 15, line 18; figures 3,4 *	1-6	F04B27/18
A	US 4 848 101 A (SUZUKI NOBUHIKO) 18 July 1989 * figures 1,3 *	1,3	
A	US 4 073 603 A (ABENDSCHEIN FREDERIC HENRY ET AL) 14 February 1978 * column 4, line 44 - column 5, line 19; figures 1,22 *	1	
A,D	EP 0 486 257 A (SANDEN CORP) 20 May 1992 * column 3, line 39 - column 6, line 12; figures 1,2 *	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			F04B
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search		Examiner
THE HAGUE	23 November 1998		Bertrand, G
CATEGORY OF CITED DOCUMENTS		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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