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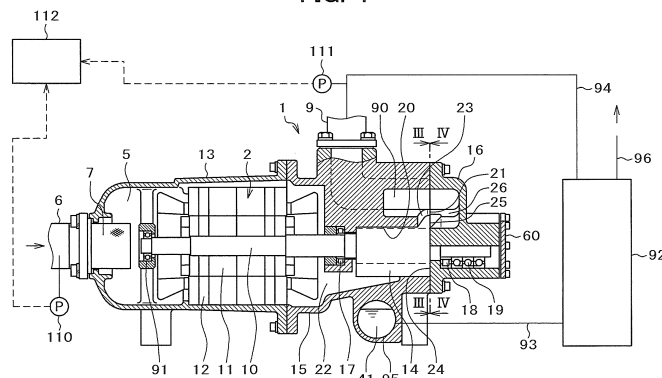
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(54) **capacity control for a screw compressor**

(57) A screw compressor having a discharge casing (16). The discharge casing (16) includes a discharge side end face that abuts on an end face of a main casing (15) to cover the opening of a bore (20), a discharge port (23A, 23B; 25A, 25B) that is formed on the discharge side end face, a discharge chamber (26) that discharges a compressed gas from a compression operation chamber (36A, 36B) through the discharge port (23A, 23B; 25A, 25B), a valve hole (28) that is disposed near the discharge port (23A, 23B; 25A, 25B) on the female rotor side of the discharge side end face and open at a position

opposite the direction of female rotor rotation, a bypass groove (29) that permits the valve hole (28) to communicate with a discharge flow path, and a valve disc (31) that is disposed in the valve hole (28). The screw compressor also includes a valve disc drive device (30) that opens and closes the valve disc (31), and a control device (112) that detects whether the compression operation chamber (36A, 36B) is over-compressed, and if the compression operation chamber (36A, 36B) is over-compressed, controls the valve disc drive device (30) so as to open the valve disc (31).

FIG. 1





## EUROPEAN SEARCH REPORT

 Application Number  
 EP 11 17 7400

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			TECHNICAL FIELDS SEARCHED (IPC)
			F04C
The present search report has been drawn up for all claims			
Place of search <b>Munich</b>		Date of completion of the search <b>8 April 2016</b>	Examiner <b>Durante, Andrea</b>
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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5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
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