

Title (en)  
capacity control for a screw compressor

Title (de)  
Leistungsregelung für einen Schraubenverdichter

Title (fr)  
Contrôle du capacité pour un compresseur à vis

Publication  
**EP 2423508 A2 20120229 (EN)**

Application  
**EP 11177400 A 20110812**

Priority  
JP 2010192546 A 20100830

Abstract (en)  
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).

IPC 8 full level  
**F04C 18/16** (2006.01); **F04C 28/12** (2006.01); **F04C 28/16** (2006.01); **F04C 28/26** (2006.01)

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Citation (applicant)  
JP S6179886 A 19860423 - BITZER KUEHLMASCHINENBAU KG

Cited by  
US10487833B2; US11313370B2; US11162705B2

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DOCDB simple family (publication)  
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