

Title (en)

Displacement control valve for use in a variable displacement compressor

Title (de)

Ventil zur Hubregelung zur Verwendung in einem Kompressor mit veränderlicher Fördermenge

Title (fr)

Soupape de contrôle de déplacement pour utilisation dans un compresseur à capacité variable

Publication

**EP 0907021 A2 19990407 (EN)**

Application

**EP 98118560 A 19981001**

Priority

JP 27151697 A 19971003

Abstract (en)

In a displacement control valve (10) for use in a variable displacement compressor including a suction chamber (51), a crank chamber (43), and a discharge chamber (52), a valve casing (11) defines a communication passage (17) for communicating a discharge chamber (52) with a crank chamber (43) to conduct gas from the discharge chamber to the crank chamber. A valve member (18) is placed in the communication passage and moved in a predetermined direction by a moving mechanism (12, 16, 19, 20, 21) to adjust a substantial opening degree of the communication passage. The valve member has a first and a second surface (18a, 18b) opposite to each other in the predetermine direction. The displacement control valve has a pressure introducing passage (22) for applying gas pressure to the first and the second surfaces in common in spite of adjusting the substantial opening degree. <IMAGE>

IPC 1-7

**F04B 27/18**

IPC 8 full level

**F04B 49/06** (2006.01); **F04B 27/14** (2006.01); **F04B 27/18** (2006.01); **F04B 49/00** (2006.01)

CPC (source: EP)

**F04B 27/1804** (2013.01); **F04B 2027/1813** (2013.01); **F04B 2027/1827** (2013.01); **F04B 2027/1859** (2013.01)

Cited by

DE10014080C2; EP2042732A4; EP0965754A3

Designated contracting state (EPC)

DE FR

DOCDB simple family (publication)

**EP 0907021 A2 19990407**; **EP 0907021 A3 19990908**; **EP 0907021 B1 20020206**; DE 69803732 D1 20020321; DE 69803732 T2 20021017; JP 3754193 B2 20060308; JP H11107929 A 19990420

DOCDB simple family (application)

**EP 98118560 A 19981001**; DE 69803732 T 19981001; JP 27151697 A 19971003