

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 B1 20020206 (EN)

Application

EP 98118560 A 19981001

Priority

JP 27151697 A 19971003

Abstract (en)

[origin: EP0907021A2] 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

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CPC (source: EP)

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Cited by

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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

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