

Title (en)

Displacement control valve for use in a variable displacement compressor

Title (de)

Ventil zur Hubregelung zur Verwendung in einem Kompressor mit veränderlicher Verdrängung

Title (fr)

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

Publication

EP 0908624 A3 19990908 (EN)

Application

EP 98118877 A 19981006

Priority

JP 27297297 A 19971006

Abstract (en)

[origin: EP0908624A2] In a displacement control valve (10) for use in a variable displacement compressor, 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 coupled to said communication passage and movable between a open position and a close position in a predetermined direction. The valve member is biased towards the open position on expansion of a pressure sensitive member (12) which causes the expansion in the predetermined direction in response to a pressure in at least one of the suction chamber and the crank chamber. The pressure sensitive member is movable in relation to the valve casing in the predetermined direction. A spring (14) urges the pressure sensitive member in the predetermined direction to make the pressure sensitive member urge the valve member towards the open position. <IMAGE>

IPC 1-7

F04B 27/18

IPC 8 full level

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

CPC (source: EP)

F04B 27/1804 (2013.01); **F04B 2027/1813** (2013.01); **F04B 2027/1827** (2013.01); **F04B 2027/1854** (2013.01); **F04B 2027/1859** (2013.01)

Citation (search report)

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- [Y] EP 0519598 A1 19921223 - SANDEN CORP [JP]
- [A] WO 9416225 A1 19940721 - TOYODA AUTOMATIC LOOM WORKS [JP], et al
- [A] US 4894999 A 19900123 - KAIJU MASAKI [JP], et al
- [A] EP 0405878 A1 19910102 - SANDEN CORP [JP]

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EP1503077A3; EP1083335A3

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EP 0908624 A2 19990414; **EP 0908624 A3 19990908**; **EP 0908624 B1 20011212**; DE 69802885 D1 20020124; DE 69802885 T2 20020801; JP 3862380 B2 20061227; JP H11107930 A 19990420

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