

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 A3 19990908 (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

**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)

Citation (search report)

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- [X] US 5531572 A 19960702 - KIMURA KAZUYA [JP], et al
- [X] US 5145326 A 19920908 - IMURA KAZUYA [JP], et al
- [A] EP 0498552 A1 19920812 - SANDEN CORP [JP]
- [A] US 5063829 A 19911112 - TAKAO KUNIHICO [JP], et al
- [PX] DE 19716089 A1 19971106 - TOYODA AUTOMATIC LOOM WORKS [JP]
- [PX] EP 0854288 A2 19980722 - TOYODA AUTOMATIC LOOM WORKS [JP]

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DE10014080C2; EP0965754A3; EP2042732A4

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