Title (en)

Capacity control device for variable-capacity compressor

Title (de)

Kapazitätsregelvorrichtung für einen Verdichter mit veränderlicher Fördermenge

Title (fr)

Dispositif de réglage de la capacité d'un compresseur à capacité variable

Publication

EP 0771948 B1 20000119 (EN)

Application

EP 96103572 A 19960307

Priority

JP 28314095 A 19951031

Abstract (en)

[origin: EP0771948A1] A capacity control device for variable-capacity compressors is provided with a high-pressure valve portion 36 for opening or closing the communication between the discharge chamber 21 and the crank case 12; a low-pressure vale portion 41 for opening or closing the communication between the suction chamber 20 and the crank case 12; a valve open-close member 35 for opening or closing so as to reverse the open-close relationship between the high-pressure valve portion 36 and the low-pressure valve portion 41 by advancing or retreating; a pressurising chamber 53 for applying pressure to the valve open-close member 35 in a direction that opens the high-pressure valve portion 36 by means of a wider effective pressure-receiving area than that of the high-pressure valve portion 36. The device is driven with only small actuation forces by an electromagnetic solenoid 50 to open or close a communicating path between the discharge chamber 21 and the said pressurising chamber 53. <IMAGE>

IPC 1-7

F04B 27/18

IPC 8 full level

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CPC (source: EP)

F04B 27/1804 (2013.01)

Cited by

EP0919720A3; CN111742141A; CN100356059C; EP1099852A3; EP1247981A3; US11802552B2; JPWO2021006301A1; EP3998403A4

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