

Title (en)
VARIABLE CAPACITY COMPRESSOR

Title (de)
VERDICHTER MIT VARIABLER KAPAZITÄT

Title (fr)
COMPRESSEUR À CAPACITÉ VARIABLE

Publication
EP 3236068 A1 20171025 (EN)

Application
EP 15870024 A 20151216

Priority
• JP 2014256348 A 20141218
• JP 2015085259 W 20151216

Abstract (en)
[Object] To provide a variable capacity compressor capable of improving the startup performance of the compressor, reducing the amount of refrigerant circulating internally during an intermediate stroke, and eliminating the risk of becoming out of control due to contaminants in the refrigerant or the like. [Solution] The variable capacity compressor includes an open passage 50 communicating a control pressure chamber 4 with a suction chamber 33 and a valve accommodating chamber 51 formed in the open passage and the open passage 50 includes an upstream side open passage 50a communicating the control pressure chamber 4 with the valve accommodating chamber 51 and a downstream side open passage 50b communicating the valve accommodating chamber 51 with the suction chamber 33. In addition, the variable capacity compressor is provided with a valve element 52 accommodated in the valve accommodating chamber 51 so as to open or close the downstream side open passage 50b, urging means (spring 53) that urges the valve element 52 so as to open the downstream side open passage 50b, a discharge pressure introduction passage 54 communicating the valve accommodating chamber 51 with the discharge chamber, and a check valve 55, provided in the upstream side open passage 50a, that allows only a flow of the fluid from the control pressure chamber 4 to the valve accommodating chamber 51.

IPC 8 full level
F04B 27/18 (2006.01)

CPC (source: EP)
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Designated contracting state (EPC)
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Designated extension state (EPC)
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