

Title (en)
Air conditioning systems

Title (de)
Klimaanlagen

Title (fr)
Systèmes de conditionnement d'air

Publication
EP 1014016 A3 20020116 (EN)

Application
EP 99125415 A 19991220

Priority
JP 36316798 A 19981221

Abstract (en)
[origin: EP1014016A2] The air conditioning system 100 may include a compressor 101, a heating circuit 152, and a capacity controller 181. The compressor 101 has a suction port 115, a discharge port 120, a driving unit 130 provided within a driving chamber 110, a first passage 201 and a second passage 202. The driving unit 130 may decrease compressor output discharge capacity when the pressure within the driving chamber 110 increases. The first passage 201 may connect the discharge port 120 to the driving chamber 110 and the second passage 202 may connect the driving chamber 110 to the suction port 115. The capacity controller 181, 185 may open the first passage 201 when the refrigerant discharge pressure results predetermined pressure. Further, the capacity controller 181, 185 may narrow the second passage 202 in response to the opening of the first passage 201. By opening the first passage 201, the high-pressure refrigerant may be released from the discharge port 120 to the driving chamber 110 through the first passage 201. By narrowing the second passage 202, the high-pressure refrigerant released from the discharge port is difficult to be released from the driving chamber 110 to the suction port 116. Thus, the pressure within the driving chamber 110 may quickly increase, the compressor output discharge capacity can be quickly reduced, the abnormally high discharge pressure of the compressor 101 can be quickly alleviated by the reduction in the compressor output discharge capacity. <IMAGE>

IPC 1-7
F25B 49/02; **F25B 41/04**; **F04B 27/18**; **B60H 1/00**

IPC 8 full level
B60H 1/00 (2006.01); **B60H 1/22** (2006.01); **B60H 1/32** (2006.01); **F04B 27/18** (2006.01); **F25B 41/04** (2006.01)

CPC (source: EP US)
F04B 27/1804 (2013.01 - EP US); **F25B 41/20** (2021.01 - EP US); **F04B 2027/1813** (2013.01 - EP); **F04B 2027/1827** (2013.01 - EP); **F04B 2027/1831** (2013.01 - EP); **F04B 2027/1854** (2013.01 - EP); **F04B 2027/1859** (2013.01 - EP); **F04B 2027/1868** (2013.01 - EP); **F25B 2400/0403** (2013.01 - EP); **F25B 2400/0411** (2013.01 - EP)

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Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 1014016 A2 20000628; **EP 1014016 A3 20020116**; JP 2000177375 A 20000627

DOCDB simple family (application)
EP 99125415 A 19991220; JP 36316798 A 19981221