

Title (en)
AIR CONDITIONER

Title (de)
KLIMAANLAGE

Title (fr)
CLIMATISEUR

Publication
EP 4400779 A1 20240717 (EN)

Application
EP 21956732 A 20210908

Priority
JP 2021032974 W 20210908

Abstract (en)
An air conditioner (100) includes a compressor (1), a first heat exchanger (2), a second heat exchanger (4), a decompression device (3), a circulation path (5), a temperature sensor (50), a concentration sensor (51), a heater (60), and a control device (70). In a case where a concentration of refrigeration oil detected by the concentration sensor (51) is less than a first threshold value, the control device (70) operates the heater (60) such that a part of a refrigerant in a liquid state in the compressor (1) is vaporized, and in a case where the concentration of the refrigeration oil detected by the concentration sensor (51) exceeds a second threshold value greater than the first threshold value and a temperature of the refrigeration oil detected by the temperature sensor (50) is less than a specified temperature, the control device (70) operates the heater (60) such that the refrigerant in the liquid state in the compressor (1) is vaporized and the temperature of the refrigeration oil in the compressor (1) is increased.

IPC 8 full level
F25B 1/00 (2006.01)

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F25B 31/002 (2013.01 - US); **F25B 31/004** (2013.01 - EP); **F25B 49/02** (2013.01 - EP); **F25B 49/022** (2013.01 - US);
F25B 2400/01 (2013.01 - EP US); **F25B 2500/16** (2013.01 - EP US); **F25B 2700/21155** (2013.01 - EP US)

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Designated extension state (EPC)
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