

Title (en)
FREEZING APPARATUS

Title (de)
GEFRIERVORRICHTUNG

Title (fr)
APPAREIL DE CONGÉLATION

Publication
EP 1808653 A1 20070718 (EN)

Application
EP 05776073 A 20050830

Priority
• JP 2005015781 W 20050830
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Abstract (en)
In an air conditioner (10), a refrigerant adjustment tank (14) is disposed in a refrigerant circuit (11). The refrigerant adjustment tank (14) is disposed just after an expander (16). In the refrigerant circuit (11), a liquid injection line (31) and a gas injection line (33) are arranged. When a liquid side control valve (32) is placed in the open state, liquid refrigerant in the refrigerant adjustment tank (14) is supplied through the liquid injection line (31) to the suction side of a compressor (15). On the other hand, when a gas side control valve (34) is placed in the open state, gas refrigerant in the refrigerant adjustment tank (14) is supplied through the gas injection line (33) to the suction side of the compressor (15). The opening of the liquid and gas side control valves (32, 34) is controlled to thereby make a change in the state of refrigerant drawn into the compressor (15), whereby the amount of refrigerant passing through the compressor (15) and the amount of refrigerant passing through the expander (16) are balanced with each other.

IPC 8 full level
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Citation (search report)
See references of WO 2006025397A1

Cited by
EP3159628A1; EP2077426A4; FR2967483A1; EP2518423A3; US11022355B2; WO2012076299A3; EP3420191B1

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