

Title (en)
AIR CONDITIONER

Title (de)
KLIMAANLAGE

Title (fr)
CLIMATISEUR

Publication
EP 2863153 B1 20180307 (EN)

Application
EP 12886561 A 20121018

Priority
JP 2012076941 W 20121018

Abstract (en)
[origin: EP2863153A1] An air conditioning apparatus (1) comprising a refrigerant circuit (10) having a compressor (21), an outdoor heat exchanger (23), indoor heat exchangers (42a, 42b), and a heat storage heat exchanger (28) for performing heat exchange between a refrigerant and a heat storage medium; the air conditioning apparatus being capable of performing a heat storage operation, and also of simultaneously performing a heat-storage-utilizing operation and an air-warming operation during a defrosting operation. In the air conditioning apparatus (1), indoor units (4a, 4b) provided with indoor expansion valves (41a, 41b) have indoor-side control parts (48a, 48b) for deciding the opening degrees of the indoor expansion valves (41a, 41b) when only an air-warming operation is performed, and an outdoor unit (2) provided with an outdoor expansion valve (24) has an outdoor-side control part (38) for deciding the opening degree of the outdoor expansion valve (24) when only the air-warming operation is performed, and deciding the opening degrees of the indoor expansion valves (41a, 41b) and the opening degree of the outdoor expansion valve (24) when the air-warming operation is performed during the defrosting operation accompanying the heat-storage-utilizing operation.

IPC 8 full level
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CPC (source: CN EP)
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Cited by
US2016320099A1; US10443901B2; US2016356520A1; US9920949B2; EP3719409A4; US11519623B2; EP3431902A1; EP3879204A1; EP4040072A1

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