

Title (en)
AIR CONDITIONER

Title (de)
KLIMAANLAGE

Title (fr)
CLIMATISEUR

Publication
EP 2884205 A1 20150617 (EN)

Application
EP 12886558 A 20121018

Priority
JP 2012076938 W 20121018

Abstract (en)
An air conditioning apparatus (1) is provided with a refrigerant circuit (10) further provided with a compressor (21), an outdoor heat exchanger (23), an indoor heat exchanger (42a, 42b), and a stored-heat heat exchanger (28) that exchanges heat between a refrigerant and a heat storage material, and is capable of performing a heat storage operation during a heating operation and a stored-heat usage operation during a defrosting operation. The refrigerant circuit (10) is further provided with a heat storage valve (29) for varying the quantity of refrigerant flowing into the stored-heat heat exchanger (28). With this air conditioning apparatus (1), in the heat storage operation, the opening degree of the heat storage expansion valve (29) is controlled so as to be the setting heat storage operation opening degree determined according to a function based on the condensation pressure of the refrigerant, the liquid pipe pressure in the outlet and inlet of the heat storage expansion valve (29), and the enthalpy of refrigerant at the outlet and inlet of the stored-heat heat exchanger (28).

IPC 8 full level
F25B 49/02 (2006.01); **F25B 13/00** (2006.01); **F25B 47/02** (2006.01)

CPC (source: CN EP)
F25B 13/00 (2013.01 - CN EP); **F25B 47/02** (2013.01 - CN); **F25B 47/022** (2013.01 - EP); **F25B 49/02** (2013.01 - EP); **F25B 2313/0233** (2013.01 - EP); **F25B 2313/02742** (2013.01 - EP); **F25B 2313/0311** (2013.01 - EP); **F25B 2313/0314** (2013.01 - EP); **F25B 2400/24** (2013.01 - CN EP); **F25B 2600/2501** (2013.01 - EP); **F25B 2600/2513** (2013.01 - EP); **F25B 2700/1931** (2013.01 - EP); **F25B 2700/1933** (2013.01 - EP); **F25B 2700/21151** (2013.01 - EP); **F25B 2700/21152** (2013.01 - EP)

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EP3722709A4; CN106642854A; EP4215848A1; EP4215847A1; EP4212794A1; US11629899B2; GB2606518A; GB2606518B; WO2023111503A1; WO2022229612A1

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

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