

Title (en)  
AIR CONDITIONER

Title (de)  
KLIMAAANLAGE

Title (fr)  
CLIMATISEUR

Publication  
**EP 4321820 A1 20240214 (EN)**

Application  
**EP 21936008 A 20210407**

Priority  
JP 2021014805 W 20210407

Abstract (en)  
An air-conditioner (100) is provided with a refrigerant circuit (RC) and an indoor fan (10). The refrigerant circuit (RC) has a compressor (1), a first four-way valve (2), an outdoor heat exchanger (3), a first expansion valve (4), a second four-way valve (5), a third four-way valve (6), an indoor heat exchanger (7), and a second expansion valve (8), and is configured to circulate refrigerant. The indoor fan (10) is configured to send air to the indoor heat exchanger (7). The indoor heat exchanger (7) has a first heat exchange portion (7a) and a second heat exchange portion (7b). During a cooling operation, in the first heat exchange portion (7a) and the second heat exchange portion (7b), a flow of refrigerant with respect to a flow of air sent by the indoor fan (10) is a parallel flow. In a reheating dehumidification operation, in the first heat exchange portion (7a), the flow of refrigerant with respect to the flow of air is the parallel flow, and in the second heat exchange portion (7b), the flow of refrigerant with respect to the flow of air is a counterflow.

IPC 8 full level  
**F25B 5/04** (2006.01); **F24F 1/0063** (2019.01); **F24F 11/86** (2018.01); **F25B 1/00** (2006.01); **F25B 13/00** (2006.01); **F25B 29/00** (2006.01)

CPC (source: EP US)  
**F24F 1/0068** (2019.02 - US); **F24F 11/84** (2018.01 - US); **F25B 13/00** (2013.01 - EP); **F25B 41/39** (2021.01 - EP);  
**F25B 2313/02341** (2013.01 - EP); **F25B 2313/02343** (2013.01 - EP); **F25B 2313/02344** (2013.01 - EP); **F25B 2313/02743** (2013.01 - EP)

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Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
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