

Title (en)  
AIR CONDITIONER

Title (de)  
KLIMAANLAGE

Title (fr)  
CLIMATISEUR

Publication  
**EP 3690349 B1 20231213 (EN)**

Application  
**EP 17927771 A 20170928**

Priority  
JP 2017035261 W 20170928

Abstract (en)  
[origin: EP3690349A1] An air-conditioning apparatus includes a refrigerant circuit in which an outdoor unit, at least one load-side expansion device, and at least one load-side heat exchanger are connected by pipes to allow refrigerant to circulate. The outdoor unit includes a compressor including an injection port allowing the refrigerant to flow into a suction chamber, a heat-source-side heat exchanger for heat exchange for the refrigerant, and an accumulator. The load-side heat exchanger transfers heat between a load and the refrigerant. The outdoor unit includes: an injection pipe having one end connected between the heat-source-side heat exchanger and the load-side expansion device, and the other end connected to the injection port, in the refrigerant circuit; an outdoor-side expansion device located downstream from the one end of the injection pipe in the flow of the refrigerant from the load-side expansion device to the heat-source-side heat exchanger; and an injection expansion device that adjusts the amount of the refrigerant flowing through the injection pipe. Also, a controller is provided to control the opening degrees of the outdoor-side expansion device and the injection expansion device.

IPC 8 full level  
**F25B 1/00** (2006.01); **F25B 13/00** (2006.01)

CPC (source: EP US)  
**F25B 1/00** (2013.01 - EP); **F25B 13/00** (2013.01 - EP); **F25B 41/31** (2021.01 - US); **F25B 41/40** (2021.01 - US); **F25B 49/02** (2013.01 - US); **F25B 2313/005** (2013.01 - EP US); **F25B 2313/0231** (2013.01 - EP US); **F25B 2313/0233** (2013.01 - EP); **F25B 2313/0253** (2013.01 - EP US); **F25B 2313/02741** (2013.01 - EP); **F25B 2313/0311** (2013.01 - EP); **F25B 2313/0315** (2013.01 - US); **F25B 2600/19** (2013.01 - US); **F25B 2600/2513** (2013.01 - US)

Designated contracting state (EPC)  
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