

Title (en)

AIR CONDITIONER AND METHOD OF CONTROLLING THE SAME

Title (de)

KLIMAANLAGE UND VERFAHREN ZUR STEUERUNG DAVON

Title (fr)

CLIMATISATION ET PROCÉDÉ DE COMMANDE CORRESPONDANT

Publication

**EP 3015793 B1 20180110 (EN)**

Application

**EP 15191922 A 20151028**

Priority

- KR 20140147976 A 20141029
- KR 20140147977 A 20141029
- KR 20140147978 A 20141029

Abstract (en)

[origin: EP3015793A1] An air conditioner includes a compressor; a flow switching part disposed at an outlet side of the compressor to switch a flow direction of a refrigerant according to whether a cooling operation or heating operation is performed; an outdoor heat exchanger connected to the flow switching part and having a plurality of the refrigerant pipes to guide the refrigerant which heat-exchanges with outdoor air; and a main expansion valve connected to one side of the outdoor heat exchanger. A first inlet/outlet pipe connects the flow switching part to the outdoor heat exchanger; and a second inlet/outlet pipe connects the outdoor heat exchanger to the main expansion valve, where the outdoor heat exchanger includes a header to form a flowing space of the refrigerant and having an upper header and a lower header; a check valve disposed between the upper header and the lower header to guide the refrigerant to flow one way; and a bypass pipe connecting the lower header to the second inlet/outlet pipe and guiding a discharge of a liquid refrigerant located in the lower header, and a bypass pipe valve controlling an amount of the liquid refrigerant flowing through the bypass pipe.

IPC 8 full level

**F25B 39/00** (2006.01); **F25B 13/00** (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP US)

**F25B 13/00** (2013.01 - EP US); **F25B 49/02** (2013.01 - EP US); **F25B 39/00** (2013.01 - EP US); **F25B 2313/02533** (2013.01 - EP US); **F25B 2313/02541** (2013.01 - EP US); **F25B 2313/0315** (2013.01 - EP US); **F25B 2600/2501** (2013.01 - EP US); **F25B 2700/04** (2013.01 - EP US)

Cited by

CN106352524A; CN108716789A; CN112567193A

Designated contracting state (EPC)

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