

Title (en)  
HEAT PUMP UTILIZATION EQUIPMENT

Title (de)  
NUTZUNGSVORRICHTUNG FÜR WÄRMEPUMPE

Title (fr)  
ÉQUIPEMENT D'UTILISATION DE POMPE À CHALEUR

Publication  
**EP 3358273 B1 20190814 (EN)**

Application  
**EP 16906499 A 20161221**

Priority  
JP 2016088107 W 20161221

Abstract (en)  
[origin: EP3358273A1] Provided is a heat pump use apparatus, including a refrigerant circuit, a heat medium circuit, and a heat exchanger configured to exchange heat between refrigerant and a heat medium. A main passage of the heat medium circuit includes a branching portion and a joining portion. A pressure protection device and a refrigerant leakage detection device are connected to the main passage. The pressure protection device is connected to the main passage at a connecting portion located between the heat exchanger and one of the branching portion and the joining portion. A first interruption device configured to be able to interrupt a flow from the heat exchanger to the connecting portion is provided in the main passage at a portion between the heat exchanger and the connecting portion. A second interruption device configured to be able to interrupt a flow from the heat exchanger to an other of the branching portion and the joining portion is provided in the main passage at a portion between the heat exchanger and the other of the branching portion and the joining portion.

IPC 8 full level  
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CPC (source: EP US)  
**F24D 17/02** (2013.01 - EP US); **F24H 9/17** (2022.01 - EP US); **F24H 9/2021** (2013.01 - EP US); **F25B 40/00** (2013.01 - EP US); **F25B 41/39** (2021.01 - EP); **F25B 47/025** (2013.01 - EP US); **F25B 41/39** (2021.01 - US); **F25B 2339/047** (2013.01 - EP US); **F25B 2500/222** (2013.01 - EP US)

Cited by  
EP3822545A1; EP3789686A1; EP4047275A1

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