

Title (en)
REFRIGERATION DEVICE

Title (de)
KÜHLVORRICHTUNG

Title (fr)
DISPOSITIF DE RÉFRIGÉRATION

Publication
EP 3418655 A4 20190911 (EN)

Application
EP 17753156 A 20170214

Priority
• JP 2016027443 A 20160216
• JP 2017005290 W 20170214

Abstract (en)
[origin: EP3418655A1] Provided is a refrigeration apparatus which, even if refrigerant leakage occurs, can keep the extent of the refrigerant leakage small, effectively utilize portions in which leakage is not occurring, and inhibit contamination of a refrigerant circuit with air. When refrigerant leakage is detected inside either of a first usage unit (50) and a second usage unit (60) that are connected in parallel to each other, a controller (70) closes a shutoff valve on the upstream side of a usage-side heat exchanger of the leaking unit and performs control so as to ensure a state in which, with respect to a check valve on the downstream side of the usage-side heat exchanger of the leaking unit, the refrigerant pressure on the downstream side is greater than the refrigerant pressure on the leaking unit usage-side heat exchanger side.

IPC 8 full level
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CPC (source: EP)
F24F 11/89 (2017.12); **F25B 5/02** (2013.01); **F25B 41/385** (2021.01); **F25B 41/39** (2021.01); **F25B 49/02** (2013.01); **F25B 2400/13** (2013.01); **F25B 2500/222** (2013.01); **F25B 2600/2519** (2013.01); **F25B 2700/1931** (2013.01); **F25B 2700/1933** (2013.01)

Citation (search report)
• [A] EP 2728280 A1 20140507 - LG ELECTRONICS INC [KR]
• [A] EP 2559959 A2 20130220 - MITSUBISHI ELECTRIC CORP [JP]
• [A] JP H0252967 A 19900222 - SANYO ELECTRIC CO
• See references of WO 2017141899A1

Cited by
EP3508796A4; US11260728B2; US11441820B2; EP3872423A1; US11415345B2; US11015852B2; US11359846B2; US11609032B2; US11885516B2; US11940188B2; US11131471B1; US11713893B2; US11732916B2; US11754324B2

Designated contracting state (EPC)
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