

Title (en)
REFRIGERATION DEVICE AND METHOD FOR CONTROLLING SAME

Title (de)
KÜHLVORRICHTUNG UND VERFAHREN ZUR STEUERUNG DAVON

Title (fr)
DISPOSITIF DE RÉFRIGÉRATION ET SON PROCÉDÉ DE COMMANDE

Publication
EP 2910870 A4 20160720 (EN)

Application
EP 12884923 A 20120921

Priority
JP 2012074214 W 20120921

Abstract (en)
[origin: EP2910870A1] A refrigeration apparatus 1 includes a high-temperature side cycle 11 in which a refrigerant circulates, the high-temperature side cycle 11 including a high-temperature side compressor 12, a high-temperature side condenser 13, a high-temperature side expansion valve 14, and a high-temperature side evaporator 15 sequentially connected by piping, a low-temperature side cycle 21 in which a refrigerant circulates, the low-temperature side cycle 21 including a low-temperature side compressor 22, a low-temperature side condenser 24, a receiver 25, a low-temperature side expansion valve 43, and a low-temperature side evaporator 44 sequentially connected by piping, and a cascade condenser 51 including the high-temperature side evaporator 15 and the low-temperature side condenser 24 and configured to heat exchange between the refrigerant flowing in the high-temperature side evaporator 15 and the refrigerant flowing in the low-temperature side condenser 24. The receiver 25 is located under the cascade condenser 51.

IPC 8 full level
F25B 1/00 (2006.01); **F25B 7/00** (2006.01)

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F25B 7/00 (2013.01); **F25B 49/02** (2013.01); **F25B 2600/0251** (2013.01); **F25B 2600/2513** (2013.01); **F25B 2700/1931** (2013.01); **F25B 2700/1933** (2013.01); **F25B 2700/2104** (2013.01)

Citation (search report)

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- [XAI] JP 2012087978 A 20120510 - MITSUBISHI ELECTRIC CORP
- [Y] JP 2000105011 A 20000411 - DAIKIN IND LTD
- See references of WO 2014045400A1

Cited by
EP3479903A1; EP4257894A4; RU188096U1; EP3812668A1; US2021381729A1; US11112147B2; US11293670B2; US11739990B2

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