

Title (en)
REFRIGERATION CIRCUIT DEVICE AND REFRIGERATION CIRCUIT CONTROL METHOD

Title (de)
KÄLTEKREISLAUFVORRICHTUNG UND KÄLTEKREISLAUFSTEUERUNGSVERFAHREN

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

Publication
EP 4382827 A1 20240612 (EN)

Application
EP 21952785 A 20210805

Priority
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Abstract (en)
A refrigeration cycle apparatus includes: a high-stage circuit through which a high-stage refrigerant circulates, the high-stage circuit including a first compressor, a condenser, a first expansion device, and a cascade heat exchanger; and a low-stage circuit through which a low-stage refrigerant circulates, the low-stage circuit including a second compressor, the cascade heat exchanger, a receiver, a second expansion device, and an evaporator, wherein the cascade heat exchanger is configured to exchange heat between the high-stage refrigerant and the low-stage refrigerant, the low-stage refrigerant is a zeotropic refrigerant mixture, and a high pressure of the low-stage refrigerant circulating in the low-stage circuit is maintained to be equal to or lower than a pressure at or below which the low-stage refrigerant is non-flammable.

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