

Title (en)
REFRIGERATION SYSTEM

Title (de)
KÜHLSYSTEM

Title (fr)
SYSTÈME DE RÉFRIGÉRATION

Publication
EP 2019271 A4 20120912 (EN)

Application
EP 07743282 A 20070514

Priority
• JP 2007059847 W 20070514
• JP 2006135300 A 20060515

Abstract (en)
[origin: EP2019271A1] There is disclosed a refrigeration apparatus capable of decreasing a load on a compressor and improving an operation efficiency. According to the present invention, in a refrigeration apparatus 1 of a so-called two-dimensional multistage system, an evaporator 34 of a high-temperature-side refrigerant circuit 25 and a condensing pipe 42 of a low-temperature-side refrigerant circuit 38 constitute a cascade heat exchanger 43, and an evaporation pipe 62 of the low-temperature-side refrigerant circuit 38 obtains an extremely low temperature. The apparatus includes an oil separator 43 provided on the discharge side of a compressor 20 of the low-temperature-side refrigerant circuit 38 so that oil is separated from non-azeotropic mixed refrigerants to return the oil to the compressor 20, and a radiator 39 interposed between the oil separator 43 and the compressor 20.

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Citation (search report)
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• [A] US 3733845 A 19730522 - LIEBERMAN D
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