

Title (en)  
REFRIGERATION SYSTEM

Title (de)  
KÜHLSYSTEM

Title (fr)  
SYSTÈME DE RÉFRIGÉRATION

Publication  
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Application  
**EP 07743282 A 20070514**

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Abstract (en)  
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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