

Title (en)  
Refrigerating machine

Title (de)  
Kältemaschine

Title (fr)  
Machine frigorifique

Publication  
**EP 1577622 A3 20070131 (EN)**

Application  
**EP 05005611 A 20050315**

Priority  
• JP 2004079341 A 20040319  
• JP 2004079342 A 20040319

Abstract (en)  
[origin: EP1577622A2] A refrigerating machine is equipped with a compressor 1, a radiator 2, a pressure-reducing device 3, a gas-liquid separator 4, a unit for introducing the gas refrigerant separated in gas-liquid separator 4 into an intermediate pressure portion of the compressor, and a low pressure side circuit 9 in which liquid refrigerant separated in the gas-liquid separator is circulated. The low pressure side circuit 9 is provided with a heat absorbing unit 10 which selectively functions in different temperature zones. When the heat absorbing unit 10 is made to function in a high temperature zone, the gas refrigerant separated in the gas-liquid separator 4 is inhibited from being introduced into the intermediate pressure portion of the compressor 1 is inhibited, or allowed to be introduced into another intermediate pressure portion which is lower in pressure than the intermediate pressure portion.

IPC 8 full level  
**F25B 1/10** (2006.01); **F25B 5/02** (2006.01); **F25D 11/02** (2006.01); **F25B 9/00** (2006.01); **F25D 17/04** (2006.01); **F25D 17/06** (2006.01)

CPC (source: EP KR US)  
**F25B 1/00** (2013.01 - KR); **F25B 1/10** (2013.01 - EP US); **F25B 5/02** (2013.01 - EP KR US); **F25B 41/39** (2021.01 - EP); **F25D 11/02** (2013.01 - EP US); **F25D 21/04** (2013.01 - KR); **F25B 9/008** (2013.01 - EP US); **F25B 41/39** (2021.01 - US); **F25B 2309/061** (2013.01 - EP US); **F25B 2400/13** (2013.01 - EP US); **F25B 2400/23** (2013.01 - EP US); **F25B 2600/2509** (2013.01 - EP US); **F25B 2600/2511** (2013.01 - EP US); **F25D 11/022** (2013.01 - EP US); **F25D 17/045** (2013.01 - EP US); **F25D 17/065** (2013.01 - EP US); **F25D 2317/0682** (2013.01 - EP US); **F25D 2400/04** (2013.01 - EP US)

Citation (search report)  
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Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR LV MK YU

DOCDB simple family (publication)  
**EP 1577622 A2 20050921**; **EP 1577622 A3 20070131**; CN 100338409 C 20070919; CN 1670450 A 20050921; KR 100642709 B1 20061110; KR 20060043489 A 20060515; US 2005204773 A1 20050922

DOCDB simple family (application)  
**EP 05005611 A 20050315**; CN 200510056393 A 20050318; KR 20050018959 A 20050308; US 8042205 A 20050316