

Title (en)  
REFRIGERATION DEVICE

Title (de)  
Kühlvorrichtung

Title (fr)  
DISPOSITIF DE RÉFRIGÉRATION

Publication  
**EP 2302309 A4 20170621 (EN)**

Application  
**EP 09762517 A 20090610**

Priority  
• JP 2009060645 W 20090610  
• JP 2008155757 A 20080613

Abstract (en)  
[origin: EP2302309A1] An object is to provide a refrigeration unit capable of reducing refrigerant leakage by always maintaining a low pressure at a specified pressure or less while the operation thereof is stopped. A refrigeration unit (1) that performs a pump down operation by closing or narrowing down a refrigerant low-pressure line to stop the operation of a compressor (2), that stops the compressor (2) when a low pressure is reduced to a specified pressure or less, and that closes a refrigerant discharge line to maintain the low pressure, includes low-pressure monitoring means (11) that monitors the low pressure while the compressor (2) is stopped and that performs the pump down operation when the low pressure rises to the specified pressure or more to always maintain the low pressure at the specified pressure or less.

IPC 8 full level  
**F24F 11/02** (2006.01); **F25B 1/00** (2006.01); **F25B 45/00** (2006.01); **F25B 49/00** (2006.01)

CPC (source: EP KR)  
**F25B 45/00** (2013.01 - EP); **F25B 49/005** (2013.01 - EP KR); **F25B 2400/19** (2013.01 - EP KR); **F25B 2500/27** (2013.01 - EP KR); **F25B 2700/1933** (2013.01 - EP KR)

Citation (search report)  
• [X1] JP H11142003 A 19990528 - DAIKIN IND LTD  
• [X1] JP H05280812 A 19931029  
• [X1] US 4966013 A 19901030 - WOOD RUSSELL E [US]  
• See references of WO 2009151087A1

Cited by  
US11441820B2; US11441827B2; US11747065B2

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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