

Title (en)  
REFRIGERATING APPARATUS

Title (de)  
KÜHLVORRICHTUNG

Title (fr)  
APPAREIL DE RÉFRIGÉRATION

Publication  
**EP 1795833 A4 20141224 (EN)**

Application  
**EP 05782353 A 20050909**

Priority  
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• JP 2004262176 A 20040909

Abstract (en)  
[origin: EP1795833A1] A refrigeration apparatus having a refrigerant circuit (20) for performing a vapor compression refrigeration cycle is disclosed. Refrigerant in a wet state, which provides an optimum coefficient of performance (COP) for a present operating condition, is drawn into the compressor (31). If the operating condition changes, the opening of an expansion valve (23) is adjusted such that the suction refrigerant of the compressor (31) is brought into a wet state which provides an optimum coefficient of performance for a new operating condition.

IPC 8 full level  
**F25B 1/00** (2006.01); **F25B 11/02** (2006.01); **F25B 13/00** (2006.01); **F25B 43/00** (2006.01)

CPC (source: EP KR US)  
**F25B 1/00** (2013.01 - KR); **F25B 9/008** (2013.01 - EP US); **F25B 9/06** (2013.01 - EP US); **F25B 11/02** (2013.01 - KR); **F25B 13/00** (2013.01 - EP KR US); **F25B 43/00** (2013.01 - KR); **F25B 1/04** (2013.01 - EP US); **F25B 2309/061** (2013.01 - EP US); **F25B 2313/0272** (2013.01 - EP US); **F25B 2600/17** (2013.01 - EP US); **F25B 2600/2513** (2013.01 - EP US)

Citation (search report)  
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• [Y] JP 2000234814 A 20000829 - AISIN SEIKI  
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• [E] WO 2006025397 A1 20060309 - DAIKIN IND LTD [JP], et al  
• [XA] HUFF H-J ET AL: "EXPERIMENTAL INVESTIGATION OF A SCROLL EXPANDER IN A CARBON DIOXIDE AIR-CONDITIONING SYSTEM", INTERNATIONAL CONGRESS OF REFRIGERATION. PROCEEDINGS - CONGRESINTERNATIONAL DU FROID. COMPTES RENDUS, XX, XX, 17 August 2003 (2003-08-17), pages 1 - 08, XP000962258  
• See references of WO 2006028218A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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**EP 05782353 A 20050909**; AU 2005280900 A 20050909; CN 200580030120 A 20050909; JP 2004262176 A 20040909; JP 2005016643 W 20050909; KR 20077007764 A 20070405; US 66220605 A 20050909