

Title (en)  
Refrigeration cycle apparatus

Title (de)  
Kältekreislaufvorrichtung

Title (fr)  
Appareil de circuit de réfrigération

Publication  
**EP 2647926 A2 20131009 (EN)**

Application  
**EP 13166593 A 20081120**

Priority  
• JP 2007310097 A 20071130  
• EP 08855672 A 20081120  
• JP 2008071069 W 20081120

Abstract (en)  
A refrigerant cycle apparatus comprising: a compressor (1), a radiator (2), decompression means (3), a heat absorber (4), an internal heat exchanger (5) that performs heat exchange between a refrigerant at an outlet of said radiator and the refrigerant at an outlet of said heat absorber, wherein first temperature detection means (30) for detecting a refrigerant temperature between an outlet of the compressor (1) and an inlet of the radiator (2) and second temperature detection means (31) for detecting the refrigerant temperature between the outlet of the radiator (2) and a high-pressure side inlet of the internal heat exchanger (5) are provided, and an opening degree of decompression means (3) is controlled so that a temperature difference (#T) between a detection temperature by the first temperature detection means (30) and the detection temperature by the second temperature detection means (31) becomes a target value.

IPC 8 full level  
**F25B 1/00** (2006.01)

CPC (source: EP US)  
**F25B 9/008** (2013.01 - EP US); **F25B 40/00** (2013.01 - EP US); **F25B 2309/061** (2013.01 - EP US); **F25B 2339/047** (2013.01 - EP US); **F25B 2341/063** (2013.01 - EP US); **F25B 2600/17** (2013.01 - EP US); **F25B 2600/2513** (2013.01 - EP US); **F25B 2700/1933** (2013.01 - EP US); **F25B 2700/2102** (2013.01 - EP US); **F25B 2700/21151** (2013.01 - EP US); **F25B 2700/21152** (2013.01 - EP US); **F25B 2700/21161** (2013.01 - EP US); **F25B 2700/21174** (2013.01 - EP US)

Citation (applicant)  
• JP 3601369 B2 20041215  
• JP 3227651 B2 20011112

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 2196745 A1 20100616; EP 2196745 A4 20130213; EP 2196745 B1 20171108**; CN 101842645 A 20100922; CN 101842645 B 20121128; CN 102425872 A 20120425; CN 102425872 B 20140625; DK 2196745 T3 20171211; DK 2647925 T3 20170206; DK 2647926 T3 20190107; DK 2647927 T3 20201019; DK 2647928 T3 20161212; EP 2647925 A2 20131009; EP 2647925 A3 20150805; EP 2647925 B1 20161221; EP 2647926 A2 20131009; EP 2647926 A3 20150729; EP 2647926 B1 20181024; EP 2647927 A2 20131009; EP 2647927 A3 20150729; EP 2647927 B1 20200916; EP 2647928 A2 20131009; EP 2647928 A3 20150805; EP 2647928 B1 20161026; ES 2605462 T3 20170314; ES 2611980 T3 20170511; ES 2650233 T3 20180117; ES 2700938 T3 20190220; ES 2823758 T3 20210510; JP 2009133547 A 20090618; JP 4948374 B2 20120606; US 2010205987 A1 20100819; WO 2009069524 A1 20090604

DOCDB simple family (application)  
**EP 08855672 A 20081120**; CN 200880114114 A 20081120; CN 201110289736 A 20081120; DK 08855672 T 20081120; DK 13166592 T 20081120; DK 13166593 T 20081120; DK 13166595 T 20081120; DK 13166596 T 20081120; EP 13166592 A 20081120; EP 13166593 A 20081120; EP 13166595 A 20081120; EP 13166596 A 20081120; ES 08855672 T 20081120; ES 13166592 T 20081120; ES 13166593 T 20081120; ES 13166595 T 20081120; ES 13166596 T 20081120; JP 2007310097 A 20071130; JP 2008071069 W 20081120; US 73892408 A 20081120