

Title (en)  
REFRIGERATION DEVICE, REFRIGERATION SYSTEM

Title (de)  
KÜHLVORRICHTUNG, KÜHLSYSTEM

Title (fr)  
DISPOSITIF DE RÉFRIGÉRATION, SYSTÈME DE RÉFRIGÉRATION

Publication  
**EP 3499148 A4 20190911 (EN)**

Application  
**EP 17866017 A 20171010**

Priority  
• JP 2016213257 A 20161031  
• JP 2017036626 W 20171010

Abstract (en)  
[origin: EP3499148A1] A condensing unit (3) is provided with: a compressor (31) which compresses a refrigerant; a gas cooler (32) which condenses the refrigerant compressed in the compressor (31); an electronic expansion valve (33) which expands the refrigerant condensed in the gas cooler (32); and a controller (100) which adjusts the degree of opening of the electronic expansion valve (33) such that the pressure of the refrigerant compressed by the compressor (31) approaches a target high-pressure value set on the basis of the outside-air temperature, and which corrects the target high-pressure value if the opening degree of the electronic expansion valve (33) exceeds a predetermined opening upper limit value or opening lower limit value.

IPC 8 full level  
**F25B 1/00** (2006.01); **F25B 1/10** (2006.01); **F25B 5/02** (2006.01); **F25B 6/02** (2006.01); **F25B 9/00** (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP)  
**F25B 1/10** (2013.01); **F25B 5/02** (2013.01); **F25B 6/02** (2013.01); **F25B 9/008** (2013.01); **F25B 41/39** (2021.01); **F25B 49/02** (2013.01); **F25B 2400/13** (2013.01); **F25B 2400/16** (2013.01); **F25B 2600/2513** (2013.01); **F25B 2700/1931** (2013.01); **F25B 2700/2106** (2013.01)

Citation (search report)  
• [A] WO 2014073176 A1 20140515 - DENSO CORP [JP]  
• [A] EP 2006614 A2 20081224 - DAIKIN IND LTD [JP]  
• [A] JP 2010156507 A 20100715 - DAIKIN IND LTD  
• See references of WO 2018079242A1

Cited by  
EP4361531A1

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3499148 A1 20190619; EP 3499148 A4 20190911**; AU 2017350238 A1 20190404; AU 2017350238 B2 20200716;  
JP 2018071909 A 20180510; WO 2018079242 A1 20180503

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