

Title (en)  
REFRIGERATION CYCLE DEVICE AND REFRIGERATION CYCLE SYSTEM

Title (de)  
KÄLTEKREISLAUFVORRICHTUNG UND KÄLTEKREISLAUFVERFAHREN

Title (fr)  
DISPOSITIF À CYCLE DE RÉFRIGÉRATION ET SYSTÈME À CYCLE DE RÉFRIGÉRATION

Publication  
**EP 3309475 A4 20180808 (EN)**

Application  
**EP 15894923 A 20150610**

Priority  
JP 2015066690 W 20150610

Abstract (en)  
[origin: EP3309475A1] A refrigeration cycle apparatus 100 includes a casing 8 of a refrigerant circuit 10, a first heat-medium pipe 5, and a second heat-medium pipe 6. The casing 8 includes a first frame body 8a having such a tapered sectional shape in a vertical direction that an area of a lower surface part 82a is smaller than an area of an upper surface part 81a, and a second frame body 8b including a side surface part 83b having a rectangular sectional shape in a vertical direction and connected with a peripheral part of the lower surface part 82a of the first frame body 8a. The first heat-medium pipe 5 includes a first heat-medium inflow end part 5a and a first heat-medium outflow end part 5b, at least one of the first heat-medium inflow end part 5a and the first heat-medium outflow end part 5b being housed in the second frame body 8b. The second heat-medium pipe 6 includes a second heat-medium inflow end part 6a and a second heat-medium outflow end part 6b, at least one of the second heat-medium inflow end part 6a and the second heat-medium outflow end part 6b being housed in the second frame body 8b.

IPC 8 full level  
**F24F 1/28** (2011.01); **F24F 1/34** (2011.01); **F24F 1/50** (2011.01); **F24F 1/56** (2011.01); **F24F 1/68** (2011.01); **F25B 41/00** (2006.01)

CPC (source: EP)  
**F24F 1/28** (2013.01); **F24F 1/34** (2013.01); **F24F 1/50** (2013.01); **F24F 1/56** (2013.01); **F24F 1/68** (2013.01); **F25B 41/00** (2013.01)

Citation (search report)  
• [Y] WO 2013094049 A1 20130627 - NIHON ITOMIC CO LTD [JP], et al  
• [Y] JP 2001108189 A 20010420 - MEISEI KOGYO KK  
• [A] US 6481228 B1 20021119 - CHIANG HSU-CHENG [TW], et al  
• [A] US 4852362 A 19890801 - CONRY RONALD D [AU]  
• [A] US 2006037340 A1 20060223 - TIEN CHANG-WEN [TW]  
• See references of WO 2016199238A1

Cited by  
CN110360772A

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 3309475 A1 20180418; EP 3309475 A4 20180808; EP 3309475 B1 20200506**; JP 6381799 B2 20180829; JP WO2016199238 A1 20171221; WO 2016199238 A1 20161215

DOCDB simple family (application)  
**EP 15894923 A 20150610**; JP 2015066690 W 20150610; JP 2017523019 A 20150610