Title (en)

Refrigeration cycle apparatus

Title (de)

Kältekreislaufvorrichtung

Title (fr)

Appareil à cycle de réfrigération

Publication

EP 2482013 A2 20120801 (EN)

Application

EP 12152877 A 20120127

Priority

JP 2011014959 A 20110127

Abstract (en)

A refrigeration cycle apparatus includes a second bypass pipe 13 and control means 16, one end of the second bypass pipe 13 is connected to a portion of the pipe extending from the supercooling heat exchanger 8 to the decompressing means 6, the other end of the second bypass pipe 13 is connected to a portion of the pipe extending from the evaporator 7 to the compressor 3, second flow rate adjusting means is connected to the second bypass pipe 13, the second bypass pipe 13 does not exchange heat of a refrigerant which flows out from the second flow rate adjusting means with heat of a refrigerant flowing through the supercooling heat exchanger 8, the first flow rate adjusting means and the second flow rate adjusting means are operated by a temperature detected by the control means by means of the temperature sensor 15, and the refrigeration cycle apparatus swiftly suppress the abrupt discharge temperature rise while maintaining a stable operation of the refrigeration cycle.

IPC 8 full level

F25B 49/02 (2006.01); **F25B 40/02** (2006.01)

CPC (source: EP)

F25B 40/02 (2013.01); **F25B 49/02** (2013.01); F25B 31/008 (2013.01); F25B 2400/0409 (2013.01); F25B 2400/0411 (2013.01); F25B 2400/13 (2013.01); F25B 2600/2501 (2013.01); F25B 2600/2509 (2013.01); F25B 2600/2513 (2013.01); F25B 2700/21152 (2013.01)

Citation (applicant)

JP 3440910 B2 20030825

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 2482013 A2 20120801; **EP 2482013 A3 20130102**; CN 102620458 A 20120801; JP 2012154575 A 20120816; JP 5278452 B2 20130904

DOCDB simple family (application)

EP 12152877 A 20120127; CN 201210017998 A 20120119; JP 2011014959 A 20110127