

Title (en)
REFRIGERATION CYCLE DEVICE

Title (de)
KÄLTEKREISLAUFVORRICHTUNG

Title (fr)
DISPOSITIF À CYCLE DE RÉFRIGÉRATION

Publication
EP 3059520 A1 20160824 (EN)

Application
EP 13895738 A 20131017

Priority
JP 2013078216 W 20131017

Abstract (en)
The present invention has an object to provide a refrigeration cycle device capable of inhibiting a heat medium from heating refrigerant in a condenser when a temperature of the heat medium before heating is high. The refrigeration cycle device of the present invention includes: a first condenser; a second condenser having a smaller sectional area of a refrigerant flow path than the first condenser, for further condensing the refrigerant having passed through the first condenser; a heat medium path for passing a heat medium through the second condenser and the first condenser in this order; a second condenser bypass passage for bypassing the refrigerant flow path or the heat medium flow path in the second condenser; a flow path controlling element capable of varying a bypass rate of the refrigerant or the heat medium bypassing the second condenser; and control means for controlling the flow path controlling element so as to increase the bypass rate when a temperature of the heat medium before heat exchange with the refrigerant is high.

IPC 8 full level
F25B 1/00 (2006.01); **F25B 6/04** (2006.01)

CPC (source: EP US)
F24D 17/02 (2013.01 - EP); **F24D 19/1054** (2013.01 - EP US); **F24H 15/196** (2022.01 - EP US); **F24H 15/215** (2022.01 - EP US); **F24H 15/325** (2022.01 - EP US); **F24H 15/375** (2022.01 - EP US); **F24H 15/38** (2022.01 - EP US); **F24H 15/385** (2022.01 - EP US); **F24H 15/39** (2022.01 - EP US); **F24H 15/421** (2022.01 - EP US); **F25B 6/00** (2013.01 - EP); **F25B 49/02** (2013.01 - EP); **F25B 2339/047** (2013.01 - EP); **F25B 2400/0403** (2013.01 - EP); **F25B 2600/2501** (2013.01 - EP); **F25B 2700/21161** (2013.01 - EP)

Cited by
DE102019126983A1

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 3059520 A1 20160824; **EP 3059520 A4 20170628**; **EP 3059520 B1 20200916**; JP 5999273 B2 20160928; JP WO2015056333 A1 20170309; WO 2015056333 A1 20150423

DOCDB simple family (application)
EP 13895738 A 20131017; JP 2013078216 W 20131017; JP 2015542459 A 20131017