

Title (en)
REFRIGERANT CIRCUIT SYSTEM AND CONTROL METHOD

Title (de)
KÄLTEMITTELKREISLAUFSYSTEM UND STEUERUNGSVERFAHREN

Title (fr)
SYSTÈME ET PROCÉDÉ DE COMMANDE DE CIRCUIT DE FLUIDE FRIGORIGÈNE

Publication
EP 3306230 A1 20180411 (EN)

Application
EP 17194420 A 20171002

Priority
JP 2016197358 A 20161005

Abstract (en)
There is provided a refrigerant circuit system (1) capable of being effectively operated even if there is a change in a utilization-side inlet temperature of a heat pump or the like. The refrigerant circuit system (1) includes a compressor (10), a utilization-side heat exchanger (11), a receiver (14), a first expansion valve (12) configured to depressurize a refrigerant introduced from the utilization-side heat exchanger (11), a receiver, a second expansion valve (15) configured to depressurize the refrigerant flowing out from the receiver, a heat source-side heat exchanger (17), a first bypass circuit (13) configured to bypass the flow of the refrigerant passing through the first expansion valve (12), a second bypass circuit (16) configured to bypass the flow of the refrigerant passing through the second expansion valve (15), and a control device (100) configured to control opening and closing of the first bypass circuit (13) and opening and closing of the second bypass circuit (16).

IPC 8 full level
F25B 30/02 (2006.01)

CPC (source: EP)
F25B 30/02 (2013.01); **F25B 41/39** (2021.01); **F25B 2339/047** (2013.01); **F25B 2400/0411** (2013.01); **F25B 2600/2501** (2013.01); **F25B 2600/2513** (2013.01)

Citation (applicant)
JP 2007010282 A 20070118 - HITACHI LTD

Citation (search report)
• [XY] JP 2007155230 A 20070621 - HITACHI APPLIANCES INC
• [Y] EP 2722616 A1 20140423 - MITSUBISHI ELECTRIC CORP [JP]
• [Y] WO 2013061365 A1 20130502 - MITSUBISHI ELECTRIC CORP [JP], et al
• [A] EP 2224187 A2 20100901 - MITSUBISHI ELECTRIC CORP [JP]

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 3306230 A1 20180411; JP 2018059665 A 20180412

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EP 17194420 A 20171002; JP 2016197358 A 20161005