

Title (en)  
HEAT LOAD PROCESSING SYSTEM

Title (de)  
SYSTEM ZUR WÄRMELASTVERARBEITUNG

Title (fr)  
SYSTÈME DE TRAITEMENT DE CHARGE THERMIQUE

Publication  
**EP 3859253 A4 20211110 (EN)**

Application  
**EP 19867917 A 20190924**

Priority  
• JP 2018184833 A 20180928  
• JP 2019037321 W 20190924

Abstract (en)  
[origin: EP3859253A1] Provided is a measure against a refrigerant leak. A heat load processing system (100) has a plurality of refrigerant circuits (RC) and includes a plurality of device units (R1), a casing (50) that collectively houses the plurality of device units (R1) configuring the different refrigerant circuits (RC), a refrigerant leak detection unit (70, 84) that individually detects a refrigerant leak in the respective refrigerant circuits (RC), and a controller (80). The device units (R1) include a heat exchanger (33) that is connected to a refrigerant pipe (Pb, Pc) and a heat medium pipe (Hb, Hc, Hd) as a device configuring one of the refrigerant circuits (RC). When the refrigerant leak detection unit detects the refrigerant leak, the controller (80) performs refrigerant leaking circuit identification processing for identifying a refrigerant circuit (RC) in which the refrigerant leak is occurring (refrigerant leaking circuit) and a refrigerant leak third control for changing an operating state of a predetermined refrigerant circuit (RC) based on a result of the refrigerant leaking circuit identification processing.

IPC 8 full level  
**F25B 49/02** (2006.01); **F25B 1/00** (2006.01)

CPC (source: EP US)  
**F25B 13/00** (2013.01 - EP US); **F25B 25/005** (2013.01 - EP); **F25B 49/02** (2013.01 - EP US); **F25B 2400/06** (2013.01 - EP); **F25B 2400/13** (2013.01 - EP); **F25B 2500/222** (2013.01 - EP US); **F25B 2500/27** (2013.01 - US); **F25B 2700/19** (2013.01 - US); **F25B 2700/1931** (2013.01 - EP); **F25B 2700/1933** (2013.01 - EP); **F25B 2700/21** (2013.01 - US); **F25B 2700/21162** (2013.01 - EP); **F25B 2700/21163** (2013.01 - EP); **F25B 2700/21174** (2013.01 - EP); **F25B 2700/21175** (2013.01 - EP)

Citation (search report)  
• [IY] JP 2018009769 A 20180118 - DAIKIN IND LTD  
• [Y] JP 2016223749 A 20161228 - MITSUBISHI ELECTRIC CORP  
• [Y] DE 102016111554 A1 20170126 - VOLKSWAGEN AG [DE]

Citation (examination)  
• JP 2018066491 A 20180426 - DAIKIN IND LTD  
• See also references of WO 2020067041A1

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 3859253 A1 20210804; EP 3859253 A4 20211110**; CN 112752939 A 20210504; JP 2020051738 A 20200402; US 2021348820 A1 20211111; WO 2020067041 A1 20200402

DOCDB simple family (application)  
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