

Title (en)
HEAT SOURCE UNIT

Title (de)
WÄRMEQUELLENEINHEIT

Title (fr)
UNITÉ SOURCE DE CHALEUR

Publication
EP 4261477 A1 20231018 (EN)

Application
EP 23162128 A 20230315

Priority
JP 2022067718 A 20220415

Abstract (en)
To accurately detect a condition of nonflowing usage fluid in a heat exchanger, a heat source unit includes a compressor configured to compress a refrigerant, a heater configured to heat the compressor, a first heat exchanger configured to exchange heat between the refrigerant and usage fluid, a first temperature sensor disposed on the first heat exchanger, a second temperature sensor disposed on the first heat exchanger in a position where heat amount to be received by heat radiation from the heater is different from the first temperature sensor, and a controller configured to prohibit start-up of the compressor based on difference between temperatures detected by the first temperature sensor and the second temperature sensor.

IPC 8 full level
F25B 13/00 (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP)
F25B 13/00 (2013.01); **F25B 49/022** (2013.01); **F25B 2313/003** (2013.01); **F25B 2313/0314** (2013.01); **F25B 2400/01** (2013.01); **F25B 2500/06** (2013.01); **F25B 2500/26** (2013.01); **F25B 2500/31** (2013.01); **F25B 2700/21161** (2013.01)

Citation (applicant)
JP H1078266 A 19980324 - NIPPON P MAC KK

Citation (search report)
• [A] EP 2498029 A2 20120912 - MITSUBISHI ELECTRIC CORP [JP]
• [A] EP 2482012 A2 20120801 - HAMILTON SUNDSTRAND CORP [US]
• [A] EP 3163220 A1 20170503 - YANMAR CO LTD [JP]
• [A] WO 2020261317 A1 20201230 - 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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4261477 A1 20231018; JP 2023157663 A 20231026

DOCDB simple family (application)
EP 23162128 A 20230315; JP 2022067718 A 20220415