

Title (en)
HEAT EXCHANGER AND REFRIGERATION CYCLE APPARATUS PROVIDED WITH SAME

Title (de)
WÄRMETAUSCHER UND KÄLTEKREISLAUFVORRICHTUNG DAMIT

Title (fr)
ÉCHANGEUR THERMIQUE ET APPAREIL À CYCLE DE RÉFRIGÉRATION POURVU DE CELUI-CI

Publication
EP 3480546 A4 20190626 (EN)

Application
EP 16907324 A 20160630

Priority
JP 2016069530 W 20160630

Abstract (en)
[origin: EP3480546A1] In an outdoor heat exchanger (17), a longitudinal direction of a fin (21) is in parallel to an orientation of the gravity (YG). A first drain region (27) is provided on a side of an end portion (22a) of the fin (21), and a second drain region (29) is provided on a side of an end portion (22b). An outer wall lower surface (33) of a heat transfer tube (31) is located substantially horizontally. A first outer wall upper surface (35) of the heat transfer tube (31) slopes down at a first angle of inclination (α_1) from an end portion (36) toward the first drain region (27). A second outer wall upper surface (37) of the heat transfer tube (31) slopes down at a second angle of inclination (α_2) from the end portion (36) toward the second drain region (29).

IPC 8 full level
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CPC (source: EP)
F25B 39/02 (2013.01); **F28F 1/02** (2013.01); **F28F 1/022** (2013.01); **F28F 1/04** (2013.01); **F28F 1/32** (2013.01); **F28F 13/08** (2013.01); **F28F 17/005** (2013.01); **F28D 2021/0068** (2013.01); **F28D 2021/0071** (2013.01); **F28F 2250/02** (2013.01)

Citation (search report)

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- [X] JP H1062086 A 19980306 - NIPPON LIGHT METAL CO
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- [A] JP 2015117876 A 20150625 - NIPPON LIGHT METAL CO
- [A] EP 1429101 A2 20040616 - MODINE MFG CO [US]
- [A] JP 2005114308 A 20050428 - MATSUSHITA ELECTRIC IND CO LTD
- See references of WO 2018003091A1

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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)
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DOCDB simple family (application)
EP 16907324 A 20160630; JP 2016069530 W 20160630; JP 2018524685 A 20160630