

Title (en)
PLATE-TYPE HEAT EXCHANGER, HEAT PUMP DEVICE, AND HEAT-PUMP-TYPE COOLING/HEATING HOT-WATER SUPPLY SYSTEM

Title (de)
PLATTENWÄRMETAUSCHER, WÄRMEPUMPENVORRICHTUNG UND KÜHLENDES/ERHITZENDES HEISSWASSERZUFUHRSYSTEM VOM WÄRMEPUMPENTYP

Title (fr)
ÉCHANGEUR THERMIQUE À PLAQUE, DISPOSITIF DE POMPE THERMIQUE ET SYSTÈME D'ALIMENTATION EN EAU CHAUDE DE REFOUILLISSEMENT/CHAUFFAGE À POMPE THERMIQUE

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Application
EP 18940018 A 20181116

Priority
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Abstract (en)
A plate-type heat exchanger includes a plurality of heat transfer plates stacked on top of each other, a flow passage, formed by each space between the plurality of heat transfer plates, through which a fluid flows in a first direction; an inner fin disposed in the flow passage, a first projecting portion provided on an inflow side of each of the heat transfer plates and configured to prevent the fluid from flowing into gaps between both ends of the inner fin in a second direction and both ends of the heat transfer plate in the second direction, and a second projecting portion formed on an outflow side of each of the heat transfer plates and configured to perform positioning in placing the inner fin into the heat transfer plate. The first direction is a direction of flow of the fluid through the flow passage. The second direction is a direction orthogonal to the first direction. The inner fin is disposed between the first projecting portion and the second projecting portion.

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CPC (source: EP US)
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Cited by
EP4343252A1; WO2024061817A1

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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EP 3882556 A1 20210922; **EP 3882556 A4 20211110**; **EP 3882556 B1 20231011**; CN 112997045 A 20210618; CN 112997045 B 20221220; JP 6529709 B1 20190612; JP WO2020100276 A1 20210215; US 2021341186 A1 20211104; WO 2020100276 A1 20200522

DOCDB simple family (application)
EP 18940018 A 20181116; CN 201880098848 A 20181116; JP 2018042436 W 20181116; JP 2019514832 A 20181116; US 201817281989 A 20181116