

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

Publication  
**EP 3882556 A1 20210922 (EN)**

Application  
**EP 18940018 A 20181116**

Priority  
JP 2018042436 W 20181116

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.

IPC 8 full level  
**F28F 3/08** (2006.01)

CPC (source: EP US)  
**F24D 17/02** (2013.01 - US); **F25B 29/003** (2013.01 - US); **F28D 9/005** (2013.01 - EP); **F28F 3/02** (2013.01 - US); **F28F 3/025** (2013.01 - EP); **F28F 3/06** (2013.01 - EP); **F28F 3/08** (2013.01 - US); **F28F 3/10** (2013.01 - EP); **F28F 9/02** (2013.01 - US); **F28F 13/06** (2013.01 - EP); **F28F 3/044** (2013.01 - EP); **F28F 2215/10** (2013.01 - US); **F28F 2240/00** (2013.01 - EP); **F28F 2250/106** (2013.01 - US)

Cited by  
EP4343252A1; WO2024061817A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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