

Title (en)

PLATE-TYPE HEAT EXCHANGER AND REFRIGERATION CYCLE DEVICE COMPRISING SAME

Title (de)

PLATTENWÄRMETAUSCHER UND KÄLTEKREISLAUFVORRICHTUNG DAMIT

Title (fr)

ÉCHANGEUR DE CHALEUR DU TYPE PLAQUE ET DISPOSITIF À CYCLE DE RÉFRIGÉRATION LE COMPRENANT

Publication

EP 2878909 B1 20210106 (EN)

Application

EP 13800756 A 20130604

Priority

- JP 2012064447 W 20120605
- JP 2013065456 W 20130604

Abstract (en)

[origin: US2015083379A1] Provided is a heat exchanger capable of enhancing long-term reliability of the device through prevention of leakage of a fluid while being excellent in heat exchange efficiency, simple in structure, and manufacturable at low cost. The heat exchanger includes a plurality of heat transfer plates, a plurality of inner fins, and a plurality of leakage preventing plates. Each of the leakage preventing plates has formed therein passage holes through which the fluid is caused to flow. An inner fin of a first channel and an inner fin of a second channel are provided so that the thermal resistivities of two fluids are kept equal to each other.

IPC 8 full level

F28F 3/02 (2006.01); **F28D 9/00** (2006.01)

CPC (source: EP US)

F28D 9/005 (2013.01 - EP US); **F28F 9/00** (2013.01 - US); **F28F 3/027** (2013.01 - EP US); **F28F 2265/16** (2013.01 - EP US)

Citation (examination)

US 5909766 A 19990608 - KOBAYASHI OSAMU [JP], et al

Cited by

WO2021177668A1

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

DOCDB simple family (publication)

US 2015083379 A1 20150326; CN 104334994 A 20150204; CN 203561252 U 20140423; EP 2878909 A1 20150603; EP 2878909 A4 20160427; EP 2878909 B1 20210106; WO 2013183113 A1 20131212; WO 2013183629 A1 20131212

DOCDB simple family (application)

US 201314398310 A 20130604; CN 201320320010 U 20130605; CN 201380029412 A 20130604; EP 13800756 A 20130604; JP 2012064447 W 20120605; JP 2013065456 W 20130604