

Title (en)

LAMINATED HEADER, HEAT EXCHANGER AND REFRIGERATION CYCLE DEVICE

Title (de)

LAMINIERTES KOPFTEIL, WÄRMETAUSCHER UND KÄLTEKREISLAUFVORRICHTUNG

Title (fr)

COLLECTEUR STRATIFIÉ, ÉCHANGEUR THERMIQUE ET DISPOSITIF À CYCLE DE RÉFRIGÉRATION

Publication

EP 3499169 A4 20190626 (EN)

Application

EP 17902575 A 20171013

Priority

JP 2017037256 W 20171013

Abstract (en)

[origin: EP3499169A1] In a laminated header, second flow passages and fourth flow passages are configured in such a manner that refrigerant flowing through each of the second flow passages and the fourth flow passages flows in a direction opposite to a direction in which the refrigerant flows through each of a first flow passage, third flow passages, fifth flow passages, and sixth flow passages.

IPC 8 full level

F28F 9/02 (2006.01); **F25B 39/00** (2006.01); **F25B 41/00** (2006.01)

CPC (source: EP)

F25B 39/00 (2013.01); **F25B 39/028** (2013.01); **F25B 39/04** (2013.01); **F25B 41/00** (2013.01); **F28F 9/02** (2013.01); **F28F 9/0221** (2013.01); **F28F 9/0278** (2013.01)

Citation (search report)

- [A] EP 2998683 A1 20160323 - MITSUBISHI ELECTRIC CORP [JP]
- [A] EP 2998682 A1 20160323 - MITSUBISHI ELECTRIC CORP [JP]
- [AD] WO 2016071946 A1 20160512 - MITSUBISHI ELECTRIC CORP [JP]
- See references of WO 2019073610A1

Cited by

EP4235059A4; EP4317898A1; US11740026B2; US11913689B2; WO2024028069A1

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)

BA ME

DOCDB simple family (publication)

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