

Title (en)
PLATE-TYPE HEAT EXCHANGER AND REFRIGERATION CYCLE DEVICE

Title (de)
PLATTENARTIGER WÄRMETAUSCHER UND KÜHLZYKLUSVORRICHTUNG

Title (fr)
ÉCHANGEUR DE CHALEUR DE TYPE À PLAQUE ET DISPOSITIF À CYCLE DE RÉFRIGÉRATION

Publication
EP 3511666 A4 20190925 (EN)

Application
EP 16915717 A 20160909

Priority
JP 2016076641 W 20160909

Abstract (en)
[origin: EP3511666A1] A first heat exchanging unit (10), a second heat exchanging unit (20), and a partition plate (2) are provided. Each of the first heat exchanging unit (10) and the second heat exchanging unit (20) includes a plurality of heat transfer plates (1) stacked in a first direction. The partition plate (2) is disposed between the first heat exchanging unit (10) and the second heat exchanging unit (20) in the first direction. In the first heat exchanging unit (10), a first flow path (5) in which a first fluid flows and a second flow path (6) in which a second fluid flows are alternately provided in the first direction. In the second heat exchanging unit (20), a third flow path (7) in which the first fluid flows and a fourth flow path (8) in which a third fluid flows are alternately provided in the first direction. At least a portion of the first flow path (5) is located close to the partition plate (2) relative to the second flow path (6). At least a portion of the third flow path (7) is located close to the partition plate (2) relative to the fourth flow path (8).

IPC 8 full level
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CPC (source: EP)
F25B 1/00 (2013.01); **F25B 39/04** (2013.01); **F28D 9/005** (2013.01); **F28D 9/0093** (2013.01); **F28F 3/046** (2013.01)

Citation (search report)
• [A] WO 2004042312 A1 20040521 - VALEO THERMIQUE MOTEUR SA [FR], et al
• [A] EP 1054225 A1 20001122 - EBARA CORP [JP]
• [A] WO 2016117069 A1 20160728 - MITSUBISHI ELECTRIC CORP [JP]
• [A] FR 2843449 A1 20040213 - VALEO THERMIQUE MOTEUR SA [FR]
• [A] DE 102012010681 A1 20131205 - AUDI AG [DE]
• See references of WO 2018047299A1

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EP4060239A1

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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