

Title (en)  
HEAT EXCHANGER AND REFRIGERATION CYCLE APPARATUS EQUIPPED WITH SAME

Title (de)  
WÄRMETAUSCHER UND KÄLTEKREISLAUFVORRICHTUNG DAMIT

Title (fr)  
ÉCHANGEUR DE CHALEUR ET APPAREIL À CYCLE DE RÉFRIGÉRATION ÉQUIPÉ DE CELUI-CI

Publication  
**EP 4290170 A4 20240306 (EN)**

Application  
**EP 21924628 A 20210204**

Priority  
JP 2021004112 W 20210204

Abstract (en)  
[origin: EP4290170A1] A flat heat transfer tube (21) in an outdoor heat exchanger (11) includes a main body (23) and a connecting portion (25). The flat heat transfer tube (21) has a plurality of flow paths (27) spaced from each other. The flat heat transfer tube (21) has a first side portion (29a) and a second side portion (29b) spaced from each other by a width. The connecting portion (25) connected to an opening (33) of a header (31) has an opening end face (26) in which each of the flow paths (27) opens. In the connecting portion (25), the first side portion (29a) is tapered toward the opening end face (26) to be reduced in width. A first opening end (28a) of a first flow path (27a) located closest to the first side portion (29a) has a second flow path cross-sectional area (S2) smaller than a first flow path cross-sectional area (S 1) of an opening end (28) of each of other flow paths (27).

IPC 8 full level  
**F28F 1/02** (2006.01); **F28D 1/053** (2006.01); **F28F 9/18** (2006.01); **F28F 13/08** (2006.01)

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**F28D 1/05383** (2013.01 - EP); **F28F 1/022** (2013.01 - EP); **F28F 1/025** (2013.01 - EP); **F28F 1/04** (2013.01 - US); **F28F 9/02** (2013.01 - US); **F28F 9/182** (2013.01 - EP); **F28F 2255/16** (2013.01 - EP)

Citation (search report)  
No further relevant documents disclosed

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Designated extension state (EPC)  
BA ME

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KH MA MD TN

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