

Title (en)  
HEAT EXCHANGER AND REFRIGERATION CYCLE DEVICE

Title (de)  
WÄRMETAUSCHER UND KÜHLZYKLUSVORRICHTUNG

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

Publication  
**EP 4006474 A1 20220601 (EN)**

Application  
**EP 19940038 A 20190729**

Priority  
JP 2019029678 W 20190729

Abstract (en)  
A heat exchanger (1) is provided with a plurality of heat transfer tubes. The plurality of heat transfer tubes include a first heat transfer tube (3) configured to extend in a first direction intersecting a vertical direction (C), and a second heat transfer tube (4) which is located above the first heat transfer tube and configured to extend in the first direction. A first air passage is formed in a region adjacent to the first heat transfer tube in the vertical direction and is configured to extend in a second direction (B) intersecting both the vertical direction and the first direction. A second air passage is formed in a region adjacent to the second heat transfer tube in the vertical direction and is configured to extend in the second direction. The first heat transfer tube is connected in series to the second heat transfer tube. The flow path cross-sectional area of the first heat transfer tube is smaller than the flow path cross-sectional area of the second heat transfer tube. When viewed from the second direction, the projected area of the first air passage is greater than the projection area of the second air passage.

IPC 8 full level  
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CPC (source: EP)  
**F28D 1/0477** (2013.01); **F28F 1/325** (2013.01); **F28F 9/0275** (2013.01); **F28D 2021/0068** (2013.01); **F28F 2210/08** (2013.01)

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