

Title (en)
HEAT EXCHANGER AND REFRIGERATION CYCLE DEVICE

Title (de)
WÄRMETAUSCHER UND KÜHLZYKLUSVORRICHTUNG

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

Publication
EP 3534103 B1 20201223 (EN)

Application
EP 16920027 A 20161028

Priority
JP 2016082072 W 20161028

Abstract (en)
[origin: EP3534103A1] A heat exchanger that is supplied with air by a fan includes a fin that is plate-shaped, a first heat transfer tube that is flat and extends through the fin, and a second heat transfer tube that is flat and extends through the fin and is disposed at a distance from the first heat transfer tube in a gravity direction. The first heat transfer tube has a first upwind end located upwind and a first downwind end located downwind. The second heat transfer tube has a second upwind end located upwind and a second downwind end located downwind. The fin has an upwind fin end and a downwind fin end. Where the first upwind end and the second upwind end are connected by a first imaginary line and the first downwind end and the second downwind end are connected by a second imaginary line, the fin has an upwind fin region defined by the upwind fin end and the first imaginary line and a downwind fin region defined by the second imaginary line and the downwind fin end. A dimension of the upwind fin region is larger than a dimension of the downwind fin region in a passing direction.

IPC 8 full level
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CPC (source: EP)
F25B 39/02 (2013.01); **F28D 1/053** (2013.01); **F28D 1/05366** (2013.01); **F28D 1/05383** (2013.01); **F28F 1/02** (2013.01)

Cited by
EP4328534A4; US11578930B2; CN114450546A; EP4040084A4

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