

Title (en)

Fin for heat exchanger and heat exchanger using the fin

Title (de)

Lamelle für Wärmetauscher und Wärmetauscher mit einer solchen Lamelle

Title (fr)

Ailette pour échangeur thermique et échangeur thermique utilisant l'ailette

Publication

EP 2236972 A3 20140305 (EN)

Application

EP 10003134 A 20100324

Priority

CN 200910119662 A 20090325

Abstract (en)

[origin: EP2236972A2] The present invention discloses a fin for a heat exchanger, the fin is formed with louvers, and air, which is used as heat exchange medium, successively flows through said louvers when the heat exchanger operates. The louver gap of the louvers changes in the air flow direction, such that a louver gap at a certain portion of the louvers matches with a amount of frost formed at that portion. With the technical solution of the invention, the louver gap at a certain portion of the louvers is made to match with the amount of frost formed at that portion, such that a sufficient space is still left between adjacent louvers for the air to flow through. As a result, the wind resistance will not increase substantially to decrease the amount of air flowing through, and thus the heat exchange performance of the fin can be utilized completely.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [XY] US 2007240865 A1 20071018 - ZHANG CHAO A [US], et al
- [X] JP H08178366 A 19960712 - SHARP KK
- [X] US 2005077036 A1 20050414 - ANTONIJEVIC DRAGI [DE]
- [X] US 2008190588 A1 20080814 - HEIDENREICH MICHAEL E [US], et al
- [Y] US 2003136554 A1 20030724 - HU ZAIQIAN [US], et al
- [A] US 2005045314 A1 20050303 - ELBOURINI REFKI [US]

Cited by

EP3184949A3; FR3082295A1; EP3171113A4; US12078431B2; US10126030B2; WO2019239054A1

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DOCDB simple family (application)

EP 10003134 A 20100324; CN 200910119662 A 20090325; US 73184510 A 20100325