

Title (en)
Heat Exchanger

Title (de)
Wärmetauscher

Title (fr)
Échangeur de chaleur

Publication
EP 1832832 A1 20070912 (EN)

Application
EP 07101010 A 20070123

Priority
JP 2006029893 A 20060207

Abstract (en)
Disclosed is a heat exchanger having a corrugated fin (5) on which a plurality of louvers (12, 14) are arranged in an air-flow direction (D), wherein a length A in the air-flow direction (D) of each of a windward flat portion (11) and a leeward flat portion (15) is set in a range of 0.5 mm to 1.1 mm, a length B of an intermediate flat portion (13) is set in a range of 0.5 mm to 1.7 mm, an inclination angle of each of the windward louvers (12) and the leeward louvers (14) is set in a range of 23 degrees to 26 degrees, and a length of a chord (5b) of a circular arc portion forming a turning part (5a) of the corrugated fin (5) is set at a length of 1.2 mm or more. By optimizing all of these factors, the efficiency for heat exchange of the heat exchanger may be greatly improved.

IPC 8 full level
F28F 1/12 (2006.01)

CPC (source: EP)
F28F 1/128 (2013.01)

Citation (search report)

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- [A] JP S59107190 A 19840621 - NIHON RADIATOR CO
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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

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