

Title (en)
FIN AND TUBE TYPE HEAT EXCHANGER

Title (de)
RIPPENROHRWÄRMETAUSCHER

Title (fr)
ÉCHANGEUR DE CHALEUR DU TYPE À AILETTES ET TUBES

Publication
EP 2224198 A1 20100901 (EN)

Application
EP 08866432 A 20081126

Priority
• JP 2008071466 W 20081126
• JP 2007340369 A 20071228

Abstract (en)
A fin-and-tube type heat exchanger having a higher performance is provided by further improving the fin-side heat-transfer coefficient, without increasing the air-side circulation resistance (pressure loss). In a fin-and-tube type heat exchanger including multiple plate fins (2) that are arranged in parallel at a predetermined pitch and allow airflow to circulate therebetween, and a heat transfer tube (4) that is tightly inserted into tube holes (3) provided in the plate fins (2) at predetermined row and column pitches and allow fluid to circulate therethrough, the plate fins (2) each have a column-direction peak portion (6) provided in a column direction, between adjacent tube holes (3) in the column direction, and a flat portion (7) provided at an apex of the column-direction peak portion (6).

IPC 8 full level
F28F 1/32 (2006.01)

CPC (source: EP)
F28D 1/0477 (2013.01); **F28F 1/32** (2013.01)

Cited by
FR3079604A1; WO2019186071A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
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