

Title (en)
HEAT EXCHANGER AND REFRIGERATION CYCLE DEVICE

Title (de)
WÄRMETAUSCHER UND KÄLTEKREISLAUFVORRICHTUNG

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

Publication
EP 4253896 A1 20231004 (EN)

Application
EP 20963563 A 20201127

Priority
JP 2020044334 W 20201127

Abstract (en)
A heat exchanger (HE) includes: a fin (F) extending in a widthwise direction (D1) along an air flow direction (D0) and extending in a longitudinal direction (D2) crossing the air flow direction (D0); and a heat transfer tube (P) passing through the fin (F). The fin (F) includes a planar portion (SP), and a plurality of first protruding portions (MP1) and a plurality of second protruding portions (MP2) that protrude from the planar portion (SP). The plurality of first protruding portions (MP1) include a first projection (C1) curved downward in the longitudinal direction (D2), and a second projection (C2) curved upward in the longitudinal direction (D2). Each of the plurality of second protruding portions (MP2) surrounds a corresponding one of the plurality of through holes (TH). A vertex of the first projection (C1) and a vertex of the second projection (C2) are located at the same position in the widthwise direction (D1).

IPC 8 full level
F28F 1/32 (2006.01)

CPC (source: EP US)
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