

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 4253894 A1 20231004 (EN)

Application
EP 20963561 A 20201127

Priority
JP 2020044332 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) has a through hole (TH). The fin (F) includes a planar portion (SP), and a first protruding portion (MP1), a second protruding portion (MP2) and a third protruding portion (MP3) protruding from the planar portion (SP). The first protruding portion (MP1) is curved along the longitudinal direction (D2). The second protruding portion (MP2) is located between the first protruding portion (MP1) and the through hole (TH) and surrounds the through hole (TH). The third protruding portion (MP3) extends linearly in the longitudinal direction (D2) and is located on a leeward side relative to the first protruding portion (MP1) and the second protruding portion (MP2) in the air flow direction.

IPC 8 full level
F28F 1/32 (2006.01)

CPC (source: EP US)
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