

Title (en)
PLATE FIN-AND-TUBE HEAT EXCHANGER, AND REFRIGERATION AND AIR-CONDITIONING SYSTEM WITH SAME

Title (de)
RIPPENROHR-PLATTENWÄRMETAUSCHER SOWIE KÄLTE-UND KLIMAANLAGE DAMIT

Title (fr)
ÉCHANGEUR THERMIQUE PLAT À TUBES ET AILETTES, ET SYSTÈME DE RÉFRIGÉRATION ET DE CLIMATISATION COMPORTANT CELUI-CI

Publication
EP 2803930 A4 20160113 (EN)

Application
EP 12865491 A 20120111

Priority
JP 2012000130 W 20120111

Abstract (en)
[origin: EP2803930A1] A plate fin-tube heat exchanger is provided in which surfaces of flat tubes 51 and fins 52 each have concavities and convexities in which a length between one of peak portions that has the smallest height and one of trough portions that has the smallest depth is 10 µm or larger.

IPC 8 full level
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CPC (source: EP US)
F25B 39/022 (2013.01 - EP US); **F28F 1/12** (2013.01 - US); **F28F 1/126** (2013.01 - EP US); **F28F 1/32** (2013.01 - EP US); **F28F 17/005** (2013.01 - EP US); **F25B 2500/01** (2013.01 - EP US); **F28D 2021/007** (2013.01 - EP US); **F28F 2215/10** (2013.01 - EP US); **F28F 2215/12** (2013.01 - EP US); **F28F 2275/06** (2013.01 - EP US)

Citation (search report)

- [A] GB 2466687 A 20100707 - MITSUBISHI ELECTRIC CORP [JP]
- See references of WO 2013105133A1

Cited by
CN115127258A; US11384996B2; EP3699538A4

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DOCDB simple family (application)
EP 12865491 A 20120111; CN 201280052472 A 20120111; JP 2012000130 W 20120111; JP 2013553083 A 20120111; US 201214344364 A 20120111