

Title (en)
HEAT EXCHANGER

Title (de)
WÄRMETAUSCHER

Title (fr)
ÉCHANGEUR DE CHALEUR

Publication
EP 3574277 B1 20220727 (EN)

Application
EP 18747977 A 20180129

Priority
• JP 2017018214 A 20170203
• JP 2017204035 A 20171020
• KR 20180003863 A 20180111
• KR 2018001214 W 20180129

Abstract (en)
[origin: JP2018124047A] PROBLEM TO BE SOLVED: To increase a heat transfer area between a refrigerant pipe and a corrugated fin, to improve heat transfer performance in a heat exchanger.SOLUTION: A heat exchanger includes: a refrigerant pipe formed in a multistage manner by being folded in a meander manner; and a plurality of corrugated fins arranged in each of a plurality of stages formed in the refrigerant pipe, and into which the refrigeration pipe is inserted on each stage. Each corrugated fin has, for example, collars 133f, 134f that are members provided at insertion holes 131f, 132f into which the refrigerant pipe of each corrugated fin is inserted, and that are members for making the refrigerant pipe bring into surface contact with each corrugated fin.SELECTED DRAWING: Figure 4

IPC 8 full level
F28F 1/32 (2006.01); **F25B 39/02** (2006.01); **F28D 1/047** (2006.01); **F28D 21/00** (2006.01); **F28F 1/12** (2006.01); **F28F 1/30** (2006.01); **F28F 17/00** (2006.01)

CPC (source: EP KR)
F25B 39/02 (2013.01 - KR); **F28D 1/0475** (2013.01 - KR); **F28D 1/0477** (2013.01 - EP); **F28F 1/126** (2013.01 - EP); **F28F 1/128** (2013.01 - EP); **F28F 1/30** (2013.01 - EP); **F28F 1/325** (2013.01 - EP KR); **F28F 17/005** (2013.01 - KR); **F28D 2021/0068** (2013.01 - EP); **F28D 2021/0071** (2013.01 - KR); **F28F 2215/04** (2013.01 - EP); **F28F 2215/12** (2013.01 - EP); **F28F 2265/26** (2013.01 - EP)

Designated contracting state (EPC)
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EP 3574277 A1 20191204; EP 3574277 A4 20200219; EP 3574277 B1 20220727; JP 2018124047 A 20180809; KR 102572098 B1 20230831; KR 20180090730 A 20180813

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