

Title (en)

HEAT EXCHANGER WITH PARTIAL-HEIGHT FOLDED FINs

Title (de)

WÄRMETAUSCHER MIT VERTIKAL GEFALTETEN RIPPEN

Title (fr)

ECHANGEUR DE CHALEUR A AILETTES PLIEES A HAUTEUR PARTIELLE

Publication

EP 4198435 A1 20230621 (EN)

Application

EP 22212503 A 20221209

Priority

US 202117553929 A 20211217

Abstract (en)

A heat exchanger (20) has a plurality of plates (24) having opposed surfaces (30, 32) and side walls (36) extending beyond the opposed surfaces (30, 32) to a height; and a fin pack (26) extending from one opposed surface (30) toward an opposed surface (32) of an adjacent plate (24), and having a fin height, wherein the fin height is equal to or less than the height. The plates (24) can be stacked to form a heat exchanger assembly with a gap between adjacent fin packs (26, 28).

IPC 8 full level

F28D 9/00 (2006.01); **F28F 3/02** (2006.01); **F28F 3/12** (2006.01); **F28F 7/02** (2006.01)

CPC (source: EP US)

F28D 9/0025 (2013.01 - US); **F28D 9/0031** (2013.01 - EP); **F28D 9/0037** (2013.01 - US); **F28D 9/0062** (2013.01 - EP);
F28D 9/0081 (2013.01 - EP); **F28F 3/025** (2013.01 - EP); **F28F 3/12** (2013.01 - EP); **F28F 7/02** (2013.01 - EP); **F28D 9/0093** (2013.01 - US)

Citation (search report)

- [XAI] US 9291403 B2 20160322 - HISANAGA TORU [JP], et al
- [A] US 2013020061 A1 20130124 - BERGH CHARLES J [US]
- [A] DE 102019119257 A1 20210121 - BAYERISCHE MOTOREN WERKE AG [DE]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4198435 A1 20230621; US 2023194182 A1 20230622

DOCDB simple family (application)

EP 22212503 A 20221209; US 202117553929 A 20211217