

Title (en)  
HEAT EXCHANGER

Title (de)  
WÄRMETAUSCHER

Title (fr)  
ÉCHANGEUR DE CHALEUR

Publication  
**EP 3779342 A2 20210217 (EN)**

Application  
**EP 20188782 A 20200730**

Priority  
US 201916540761 A 20190814

Abstract (en)  
In some examples, a plate fin heat exchanger including a cold passage defined by a cold frame; a hot passage defined by a hot frame; a tube sheet between the cold passage and the hot passage; a top side plate; and a bottom side plate, wherein the cold frame includes a first bar and a second bar attached at a corner of the heat exchanger, wherein at least a portion of the first bar is configured to be removed from the cold frame, wherein the hot frame includes a third bar and a fourth bar attached at the corner of the heat exchanger, wherein at least a portion of the third bar is configured to be removed from the hot frame, and wherein the corner of the heat exchanger defined by at least one of the hot frame or the cold frame has a non-square shape.

IPC 8 full level  
**F28D 9/00** (2006.01); **F28F 3/12** (2006.01); **F28F 9/00** (2006.01); **F28F 9/02** (2006.01)

CPC (source: EP US)  
**F28D 9/0062** (2013.01 - EP); **F28F 3/005** (2013.01 - US); **F28F 3/04** (2013.01 - US); **F28F 3/083** (2013.01 - US); **F28F 9/001** (2013.01 - EP); **F28F 9/02** (2013.01 - EP); **F28F 2275/04** (2013.01 - EP)

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 MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3779342 A2 20210217**; **EP 3779342 A3 20210324**; **EP 3779342 B1 20230830**; US 2021048257 A1 20210218

DOCDB simple family (application)  
**EP 20188782 A 20200730**; US 201916540761 A 20190814