

Title (en)

HEAT EXCHANGER FINS, ASSEMBLIES AND METHODS

Title (de)

WÄRMETAUSCHERRIPPEN SOWIE ANORDNUNGEN UND VERFAHREN DAMIT

Title (fr)

AILETTES POUR ECHANGEUR DE CHALEUR, ENSEMBLES ET PROCEDES

Publication

**EP 2536989 A4 20141126 (EN)**

Application

**EP 11745439 A 20110222**

Priority

- US 30614010 P 20100219
- US 2011025728 W 20110222

Abstract (en)

[origin: US2011203782A1] A bladed heat exchanger fin, tube assemblies in which the fin is installed, and methods of using the fin. The bladed fin includes a collar and a radial portion extending radially from an axis of the collar. The radial portion has a base region adjacent the collar and first and second sets of blades that radially extend therefrom. Each blade has a span-wise axis that is transverse to the axis of the collar. Each of the first set of blades is revolved about the span-wise axis thereof so as to have radial edges that are axially spaced from each other, and each of the second set of blades is not revolved about the span-wise axis thereof. At least some of the blades of the first set are between at least some of the blades of the second set.

IPC 8 full level

**F28F 1/30** (2006.01)

CPC (source: EP KR US)

**F28D 1/04** (2013.01 - KR); **F28F 1/10** (2013.01 - KR); **F28F 1/20** (2013.01 - KR); **F28F 1/22** (2013.01 - KR); **F28F 1/30** (2013.01 - EP US);  
**F28F 2215/04** (2013.01 - EP US); **Y10T 29/49378** (2015.01 - EP US)

Citation (search report)

- [XAY] US 4138997 A 19790213 - LAPORTE GERALD E, et al
- [YA] GB 331392 A 19300703 - MATT PAYNE
- [A] GB 579610 A 19460809 - WILFRED BARNETT FIELD
- [A] US 5617916 A 19970408 - SHIGENAKA TOSHINORI [JP], et al
- [A] US 2012739 A 19350827 - BROWN CHARLES S
- See references of WO 2011103574A2

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

DOCDB simple family (publication)

**US 2011203782 A1 20110825**; EP 2536989 A2 20121226; EP 2536989 A4 20141126; JP 2013520637 A 20130606; KR 101414309 B1 20140702;  
KR 20130001224 A 20130103; WO 2011103574 A2 20110825; WO 2011103574 A3 20111201

DOCDB simple family (application)

**US 201113032376 A 20110222**; EP 11745439 A 20110222; JP 2012554093 A 20110222; KR 20127021481 A 20110222;  
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