

Title (en)

HEAT EXCHANGER BELL MOUTH INLET

Title (de)

TROMPETENFÖRMIGER WÄRMETAUSCHEREINLAUF

Title (fr)

ENTRÉE D'EMBOUCHURE DE CLOCHE D'ÉCHANGEUR DE CHALEUR

Publication

EP 3499170 A1 20190619 (EN)

Application

EP 18209929 A 20181203

Priority

US 201762593402 P 20171201

Abstract (en)

A heat exchanger (10) includes at least one passage defining a flow path for airflow (28). A manifold (15; 20) includes a transition region (16; 22) including at least two rib portions defining a smoothly curved transition surface into the at least one passage.

IPC 8 full level

F28F 9/02 (2006.01); **F28D 9/00** (2006.01); **F28D 21/00** (2006.01); **F28F 1/02** (2006.01); **F28F 1/26** (2006.01); **F28F 9/16** (2006.01)

CPC (source: EP US)

F28F 1/025 (2013.01 - EP US); **F28F 1/26** (2013.01 - EP US); **F28F 9/0221** (2013.01 - EP US); **F28F 9/0224** (2013.01 - EP US); **F28F 9/0229** (2013.01 - US); **F28F 9/0263** (2013.01 - EP US); **F28F 9/165** (2013.01 - EP US); **F28F 13/08** (2013.01 - US); **F28D 9/0062** (2013.01 - EP US); **F28D 2021/0021** (2013.01 - EP US); **F28F 2009/029** (2013.01 - EP US); **F28F 2009/0297** (2013.01 - US); **F28F 2250/02** (2013.01 - EP US)

Citation (search report)

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- [XII] WO 2006102736 A1 20061005 - DANA CANADA CORP [CA], et al
- [A] WO 2014176194 A1 20141030 - CATERPILLAR INC [US]
- [A] DE 102004012358 A1 20050929 - PORSCHE AG [DE]

Cited by

EP3564610A1; US11079181B2

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 3499170 A1 20190619; **EP 3499170 B1 20230809**; US 2019170455 A1 20190606

DOCDB simple family (application)

EP 18209929 A 20181203; US 201816185110 A 20181109