

Title (en)

HEAT EXCHANGER FOR SHEDDING WATER

Title (de)

WÄRMETAUSCHER ZUM ABSTOSSEN VON WASSER

Title (fr)

ECHANGEUR DE CHALEUR POUR LE DÉLESTAGE D'EAU

Publication

EP 2235467 A4 20131023 (EN)

Application

EP 07869412 A 20071218

Priority

US 2007087901 W 20071218

Abstract (en)

[origin: WO2009078869A1] A microchannel heat exchanger includes a two headers and tubes that extend between the headers. Each tube has an elongated cross-section, the cross-section having a first end and an opposing second end. In one example, each tube is angled such that a line defined between the ends of each tube is angled relative to the horizontal. As the tubes are angled, water that collects on the tubes is directed away from the tubes. In another example, a plate fin directs water away from the tubes. The plate fin includes openings, and a louver including parallel vertical slots is located between each of the openings. Each tube is interference fit in one of the openings of the plate fin, positioning a louver between each tube.

IPC 8 full level

F28F 1/10 (2006.01); **F25B 39/02** (2006.01); **F28D 1/02** (2006.01); **F28D 1/053** (2006.01); **F28F 1/32** (2006.01)

CPC (source: EP US)

F25B 39/022 (2013.01 - EP US); **F28D 1/05383** (2013.01 - EP US); **F28F 1/325** (2013.01 - EP US); **F28D 2001/0266** (2013.01 - EP US); **F28F 2260/02** (2013.01 - EP US)

Citation (search report)

- [XY] JP 2004069228 A 20040304 - DENSO CORP
- [XY] EP 1452819 A1 20040901 - GAC CORP [JP]
- [Y] DE 3346468 A1 19840705 - BORG WARNER [US]
- [Y] JP H0783538 A 19950328 - SHOWA ALUMINUM CORP
- See references of WO 2009078869A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2009078869 A1 20090625; CN 101903736 A 20101201; EP 2235467 A1 20101006; EP 2235467 A4 20131023; US 2011120177 A1 20110526

DOCDB simple family (application)

US 2007087901 W 20071218; CN 200780101984 A 20071218; EP 07869412 A 20071218; US 67497110 A 20100224