

Title (en)

OPEN CELL FOAM METAL HEAT EXCHANGER

Title (de)

OFFENZELLIGER SCHAUMSTOFF-METALL-WÄRMETAUSCHER

Title (fr)

ÉCHANGEUR DE CHALEUR EN MÉTAL À MOUSSE À ALVÉOLES OUVERTS

Publication

EP 3924679 A1 20211222 (EN)

Application

EP 20711400 A 20200212

Priority

- US 201962805168 P 20190213
- US 2020018009 W 20200212

Abstract (en)

[origin: WO2020168012A1] A method of enhancing an open celled foam metal heat exchanger is presented where the structure uses fluid channels that distribute fluid and/or air across a continuous flow field. The heat exchanger not only improves heat transfer properties given a required pressure drop but also takes into consideration the need to manufacture low cost solutions that may be mass produced to meet high capacity throughput requirements for the air and space industries.

IPC 8 full level

F28D 9/00 (2006.01)

CPC (source: EP US)

F28D 9/00 (2013.01 - EP); **F28F 13/003** (2013.01 - EP US); **F28F 21/081** (2013.01 - US)

Citation (search report)

See references of WO 2020168012A1

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)

WO 2020168012 A1 20200820; EP 3924679 A1 20211222; JP 2022520789 A 20220401; SG 11202108738P A 20210929; US 2022113097 A1 20220414

DOCDB simple family (application)

US 2020018009 W 20200212; EP 20711400 A 20200212; JP 2021547104 A 20200212; SG 11202108738P A 20200212; US 202017430608 A 20200212