Title (en)

HEAT EXCHANGER

Title (de)

WÄRMETAUSCHER

Title (fr)

ÉCHANGEUR DE CHALEUR

Publication

EP 2878911 A1 20150603 (EN)

Application

EP 13806526 A 20130612

Priority

- JP 2012065505 W 20120618
- JP 2013066215 W 20130612

Abstract (en)

Provided is a heat exchanger capable of distributing a fluid evenly into a plurality of channels under various conditions of the flow rate of the fluid. The heat exchanger includes: a channel forming section (51) having a plurality of arrayed fluid channels; a distribution path forming section (53) having a distribution path (57) to which inlets (55) of the plurality of arrayed fluid channels communicate; and a cylindrical partition wall (59) provided in the distribution path forming section, for defining an introduction path (63) on an inner side of the cylindrical partition wall, the distribution path being positioned on an outer side of an outer periphery of the cylindrical partition wall. The cylindrical partition wall has a plurality of distribution holes (65). The following expression is satisfied: L/d'× (d/2)^2>##Ã#¥2S, where S represents a channel sectional area of the introduction path, d represents a channel diameter of the introduction path, ##Ã represents a sum of areas (Ã) of the plurality of distribution holes, L represents a length of array of the plurality of distribution holes, and d' represents a diameter of each of the plurality of distribution holes.

IPC 8 full level

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CPC (source: EP US)

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Cited by

US2021178853A1; US11613156B2

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 2878911 A1 20150603; **EP 2878911 A4 20160601**; **EP 2878911 B1 20190828**; CN 104380027 A 20150225; CN 203479101 U 20140312; JP WO2013191056 A1 20160526; US 2015168081 A1 20150618; WO 2013190617 A1 20131227; WO 2013191056 A1 20131227

DOCDB simple family (application)

EP 13806526 A 20130612; CN 201320347144 U 20130618; CN 201380032095 A 20130612; JP 2012065505 W 20120618; JP 2013066215 W 20130612; JP 2014521373 A 20130612; US 201314404152 A 20130612