

Title (en)
INTEGRAL HEAT EXCHANGER DISTRIBUTOR

Title (de)
INTEGRIERTER VERTEILER EINES WÄRMETAUSCHERS

Title (fr)
DISTRIBUTEUR D'ÉCHANGEUR DE CHALEUR INTÉGRÉ

Publication
EP 3462119 B1 20210331 (EN)

Application
EP 18204667 A 20140430

Priority
• US 201313873412 A 20130430
• EP 14166550 A 20140430

Abstract (en)
[origin: US2014318175A1] A heat exchanger comprises a first inlet port, a first outlet port longitudinally spaced apart from the first inlet port, a plurality of substantially parallel parting plates stacked along a no-flow axis, a plurality of first flow spaces, and a plurality of metering plates. The plurality of first flow spaces are defined between adjacent ones of at least some of the parting plates and provide communication between the first inlet port and the first outlet port. The plurality of metering plates are disposed across an upstream end of at least one of the first flow spaces. Each of the plurality of metering plates includes at least one metering aperture providing fluid communication between the first inlet port and the at least one first flow space.

IPC 8 full level
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CPC (source: EP US)
F25B 39/028 (2013.01 - EP US); **F28D 9/0062** (2013.01 - EP US); **F28F 3/025** (2013.01 - EP US); **F28F 9/026** (2013.01 - EP US);
F28F 9/0282 (2013.01 - EP US); **F28D 2021/0021** (2013.01 - EP US); **F28D 2021/0064** (2013.01 - EP US); **F28D 2021/0071** (2013.01 - EP US);
F28D 2021/0085 (2013.01 - EP US)

Citation (examination)
FR 2037366 A5 19701231 - CHICAGO BRIDGE & IRON CO

Citation (opposition)
Opponent : L'Air Liquide
• EP 2618094 A2 20130724 - HONEYWELL INT INC [US]
• GB 2127140 A 19840404 - TRANE CO
• US 3612494 A 19711012 - TOYAMA AKIRA, et al
• US 3380517 A 19680430 - BUTT ALAN G
• US 3495656 A 19700217 - DICKSON RONALD
• US 4249595 A 19810210 - BUTT ALAN G [US]
• EP 0130122 A1 19850102 - AIR LIQUIDE [FR]
• US 2014318175 A1 20141030 - ZAGER MICHAEL [US]
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• N/A: "The Standards of the Brazen Aluminium Plate-Fin Heat Exchanger Manufacturers' Association - ALPEMA", ALPEMA, 1 January 2002 (2002-01-01), pages 1 - 70, XP055340954, [retrieved on 20170201]
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• ANONYMOUS: "Turnkey Heating Solutions", THE BRAZING GUIDE, 1 June 2010 (2010-06-01), pages 1 - 10, XP055887652, Retrieved from the Internet <URL:https://www.ghinduction.com/wp-content/uploads/2011/09/GH-Brazing-Guide1.pdf> [retrieved on 20220204]
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• NOZAKI TAKAHASHI, ET AL: "Heat Transfer to a Liquid Flowing Down Vertical Wires Hanging in a Hot Gas Stream : an Experimental Study of a New Means of Thermal Energy Recovery", PROC. ELEVENTH INT. HEAT TRANSFER CONF., vol. 6, 28 August 1998 (1998-08-28) - 28 August 1998 (1998-08-28), pages 63 - 68, XP055887914

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DOCDB simple family (publication)
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