

Title (en)

MULTI-CHANNEL HEAT EXCHANGER WITH IMPROVED CONDENSATE DRAINAGE

Title (de)

MEHRKANALWÄRMETAUSCHER MIT VERBESSERTER KONDENSATABFÜHRUNG

Title (fr)

ECHANGEUR DE CHALEUR MULTICANAUX AVEC SYSTÈME DE DRAINAGE DE CONDENSAT AMÉLIORÉ

Publication

EP 2097708 A4 20131106 (EN)

Application

EP 06846058 A 20061226

Priority

US 2006049290 W 20061226

Abstract (en)

[origin: WO2008079132A1] A heat exchanger includes a first generally vertical header and a second generally vertical header and a generally vertical array of a plurality of generally flat heat exchange tubes extending in a horizontal direction therebetween. Each heat exchange tube has a plurality of channels extending longitudinally in parallel relationship from its inlet end to its outlet end, each channel defining a discrete refrigerant flow path. A plurality of fins extends between parallel-arrayed tubes. To facilitate drainage of the collected condensate from the external surfaces of the flat heat exchange tubes, the tubes are aligned at a slight angle with respect to the horizontal so that the trailing edge of each tube is positioned lower than the leading edge of each tube.

IPC 8 full level

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CPC (source: EP US)

F28D 1/05383 (2013.01 - EP US); **F28F 1/022** (2013.01 - EP US); **F28F 1/12** (2013.01 - EP US); **F28F 17/005** (2013.01 - EP US)

Citation (search report)

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- See also references of WO 2008079132A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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