Title (en)

HEAT EXCHANGER PERFORATED FINS

Title (de)

PERFORIERTE WÄRMETAUSCHERRIPPEN

Title (fr)

AILETTES PERFORÉES POUR ÉCHANGEUR DE CHALEUR

Publication

EP 2622298 A1 20130807 (EN)

Application

EP 10763557 A 20100929

Priority

US 2010050685 W 20100929

Abstract (en)

[origin: WO2012044288A1] A plate fin heat exchanger comprises a folded fin sheet comprising fins wherein the fin sheet comprises a plurality of perforations, such plurality of perforations are positioned on the fin sheet in parallel rows when such fin sheet is in an unfolded state, such parallel rows of perforations on the fin sheet comprise a first spacing between the parallel rows of perforations (S1), a second spacing between sequential perforations within the parallel row of perforations (S2), a third spacing (or offset) between the perforations in adjacent parallel rows of perforations (S3), and a perforation diameter (D), wherein the ratio of the first spacing between the parallel rows of perforations to the perforation diameter (S1/D) is in the range of 0.75 to 2.0, and wherein the angle between the fins and the parallel rows of perforations is less than or equal to five degrees (= 5°).

IPC 8 full level

F28D 9/00 (2006.01); **F28F 3/02** (2006.01)

CPC (source: EP KR US)

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Citation (search report)

See references of WO 2012044288A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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