

Title (en)
CHANNEL HEAT EXCHANGER

Title (de)
KANALWÄRMETAUSCHER

Title (fr)
ECHANGEUR DE CHALEUR A CANAUX

Publication
EP 0720720 B1 19980121 (DE)

Application
EP 94928255 A 19940927

Priority

- DE 9401118 W 19940927
- DE 4333904 A 19930927
- DE 4333164 A 19930927

Abstract (en)
[origin: WO9509338A1] A heat exchanger (1) for two flowing fluids (A, B) has parallel flow channels (4) whose cross-section is formed by layered and superimposed boards with a sinuous profile. Each board covers the flow channels (4) of the underlying board. Different fluids can flow through flow channels (4) located side by side. The inner angle theta of the open trapeziums formed by the sinuous profile has less than 90 DEG . Thanks to this small inner angle, each board lies on the underlying board and is prevented from intermeshing with it. This helps to increase stability at higher differential pressures and allows the weight of the heat exchanger to be reduced.

IPC 1-7
F28D 9/00

IPC 8 full level
F28D 9/00 (2006.01); **F28F 1/32** (2006.01); **F28F 3/02** (2006.01); **F28F 3/04** (2006.01); **F28F 9/00** (2006.01); **F28F 9/02** (2006.01); **F28F 27/02** (2006.01); **F28G 1/02** (2006.01)

CPC (source: EP)
F28D 9/0025 (2013.01); **F28F 1/32** (2013.01); **F28F 3/025** (2013.01); **F28F 3/04** (2013.01); **F28F 9/001** (2013.01); **F28F 9/02** (2013.01); **F28F 27/02** (2013.01); **F28G 1/02** (2013.01); **F28F 2275/085** (2013.01); **F28F 2280/02** (2013.01)

Cited by
DE202004011489U1; DE102004025640A1; WO2022069587A1; US10415900B2; US10012450B2; WO2016147147A2; IT201900025471A1

Designated contracting state (EPC)
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