

Title (en)
Heat exchanger comprising a finned tube.

Title (de)
Rippenrohrwärmetauscher.

Title (fr)
Echangeur de chaleur comportant un tube à ailettes.

Publication
EP 0410247 A2 19910130 (DE)

Application
EP 90113529 A 19900714

Priority
DE 3924411 A 19890724

Abstract (en)
[origin: JPH0359397A] PURPOSE: To improve heat exchange characteristics, by connecting tubes of a tube bundle through fins each having an opening and disposed laterally with respect to the tube bundle. CONSTITUTION: Pipes 1 of a heat exchanger are disposed parallelly in a housing 2, and are connected with each other through fins 5. The fin 5 is disposed laterally with respect to the pipe 1, and has an opening 6, through which opening 6 a cooling medium flowing around the pipe 1 passes from the fin to the fin. Flame pipe gas or a heat fluid enters the heat exchanger through an insertion inlet 9 and is distributed on the pipe 1 through a header 8. The flame pipe gas or fluid emanating the pipe is recovered with a header 8a and passes through an outlet 10. Produced condensate is discharged from the header 8a through a condensate derivation outlet 11. A cooling medium enters the heat exchanger through the insertion inlet 3 and discharged from the heat exchanger through the derivation outlet 4.

Abstract (de)
Bei dem Rippenrohrwärmetauscher aus Silizium-infiltriertem Siliziumkarbid, bei dem die vom Kühlmedium umspülten Rohre eines Rohrbündels in einem mit Zu- (3) und Ablauf (4) für das Kühlmedium versehenen Gehäuse (2) parallel zueinander angeordnet sind, sind die Rohre des Rohrbündels mit Rippen (9) miteinander verbunden. Die Rippen (5) weisen Öffnungen (6) auf und sind quer zum Rohrbündel angeordnet.

IPC 1-7
F28F 1/32; **F28F 21/04**

IPC 8 full level
F28D 7/16 (2006.01); **F28F 1/32** (2006.01); **F28F 21/04** (2006.01)

CPC (source: EP US)
F28F 1/325 (2013.01 - EP US); **F28F 21/04** (2013.01 - EP US); **Y10S 165/905** (2013.01 - EP US)

Cited by
CN110174018A; NL1012029C2; DE10141490A1; US5941302A; EP0798532A3; US6857468B2; WO9904213A1; WO0068629A1

Designated contracting state (EPC)
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EP 90113529 A 19900714; DE 3924411 A 19890724; JP 19603990 A 19900724; US 54882490 A 19900706