

Title (en)

HEAT EXCHANGER COMPRISING A FINNED TUBE

Publication

EP 0410247 A3 19910717 (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.

IPC 1-7

F28F 21/04; **F28F 1/32**

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)

Citation (search report)

- [X] EP 0138677 A2 19850424 - ONERA (OFF NAT AEROSPATIALE) [FR]
- [YD] DE 3643749 A1 19880630 - HOECHST AG [DE]
- [Y] EP 0032224 A1 19810722 - TAISEI KOGYO CO LTD [JP]

Cited by

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

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