

Title (en)
HEAT-EXCHANGER AND HEATER WITH SUCH A HEAT-EXCHANGER

Publication
EP 0414583 B1 19920826 (FR)

Application
EP 90401889 A 19900629

Priority
FR 8910767 A 19890810

Abstract (en)
[origin: EP0414583A1] a) Heat exchanger, b) characterised in that it is formed: - from a stack of elements passed through by a first fluid and defining between them the passage path of a second fluid (smoke), - each element being a body forming a tube (1, 2), - by a head (3, 4) provided with means of inlet and outlet connection for the first fluid, - means of assembly, the body in the form of a tube consisting: - of a main plate (1), - of an auxiliary plate (2), the plates having deformations (16) for the exchange surfaces and distance pieces (16, 16') forming the passage path of the fluid, the head pieces comprising - a first plate end (3, 4) provided with an inlet and outlet connection (6, 7) for the first fluid, - a second end (8, 9) completing the circulation path of the first fluid, the edges (5) of two parallel sides of the elements forming distance pieces defining the circulation path of the second fluid between the elements. <IMAGE>

IPC 1-7
F24H 1/32; F28D 9/00

IPC 8 full level
F24H 1/32 (2006.01); **F24H 1/38** (2006.01); **F28D 9/00** (2006.01)

CPC (source: EP)
F24H 1/38 (2013.01); **F28D 9/0037** (2013.01); **F28F 2250/102** (2013.01)

Designated contracting state (EPC)
AT BE CH DE DK ES GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0414583 A1 19910227; EP 0414583 B1 19920826; AT E79943 T1 19920915; DE 69000275 D1 19921001; FR 2650881 A1 19910215; FR 2650881 B1 19911213

DOCDB simple family (application)
EP 90401889 A 19900629; AT 90401889 T 19900629; DE 69000275 T 19900629; FR 8910767 A 19890810