

Title (en)

Heat exchanger for fuel fired water heater

Title (de)

Wärmeübertrager für brennstoffbeheizte Wassererhitzer

Title (fr)

Echangeur de chaleur pour chauffe-eau chauffé par combustible

Publication

EP 0994321 A3 20001220 (DE)

Application

EP 99120228 A 19991011

Priority

- DE 29818228 U 19981013
- DE 19946604 A 19990929

Abstract (en)

[origin: EP0994321A2] The inner peripheries of the passages through the lamellae for the water pipes contain radial slots (22) that divide the periphery into edge segments (24) clamping tight against the pipes. Combustion gases from the burning fuel pass through gaps in between the lamellae to heat water flowing through the pipes.

IPC 1-7

F28F 1/32; **F28F 1/30**; **F24H 9/00**; **F24H 1/44**

IPC 8 full level

F24H 1/44 (2006.01); **F24H 9/00** (2006.01); **F28F 1/32** (2006.01)

CPC (source: EP)

F24H 1/26 (2013.01); **F24H 1/40** (2013.01); **F24H 1/44** (2013.01); **F24H 9/0026** (2013.01); **F28F 1/325** (2013.01)

Citation (search report)

- [DY] DE 19626321 A1 19980108 - BOSCH GMBH ROBERT [DE]
- [Y] GB 2110811 A 19830622 - SALTER & CO LTD G
- [A] DE 29702918 U1 19970403 - VAILLANT JOH GMBH & CO [DE]
- [A] GB 2146939 A 19850501 - HUETOETECHNIKA IPARI SZOEVEVETKE
- [A] US 4830102 A 19890516 - BAKAY ARPAD [HU], et al

Cited by

CN111108331A; WO2012175217A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0994321 A2 20000419; **EP 0994321 A3 20001220**; **EP 0994321 B1 20040818**

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