

Title (en)

HEATING UNIT FOR OIL OR GAS BOILER AND MODULES FOR PRODUCING SAME

Title (de)

HEIZKÖRPER FÜR EINEN GAS- ODER ÖLBEHEIZTEN KESSEL UND MODULE ZUR HERSTELLUNG DAVON

Title (fr)

CORPS DE CHAUFFE POUR UNE CHAUDIERE AU FIOUL OU AU GAZ ET MODULES POUR LA REALISATION D'UN TEL CORPS DE CHAUFFE

Publication

EP 0975919 A1 20000202 (FR)

Application

EP 99901692 A 19990202

Priority

- FR 9900217 W 19990202
- FR 9801206 A 19980203

Abstract (en)

[origin: FR2774459A1] The invention concerns a heating unit for oil or gas boiler, wherein said heating unit (3) comprises a case (5) lined internally, in a rear zone, with a shell (6), ring-shaped transverse fins (35) are provided between the shell (6) and the case (5) for defining transverse annular channels (36) wherein the fuel gases follow in parallel a transverse path before emerging from the heating unit (3), thereby improving heat exchange between the fuel gases and the water (22) they are meant to heat.

IPC 1-7

F24H 1/26

IPC 8 full level

F24H 1/26 (2006.01)

CPC (source: EP)

F24H 1/263 (2013.01)

Citation (search report)

See references of WO 9940376A1

Cited by

CN104613634A

Designated contracting state (EPC)

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

DOCDB simple family (publication)

FR 2774459 A1 19990806; FR 2774459 B1 20000421; AT E227410 T1 20021115; CN 1138950 C 20040218; CN 1256750 A 20000614; DE 69903771 D1 20021212; DE 69903771 T2 20030403; DK 0975919 T3 20030310; EP 0975919 A1 20000202; EP 0975919 B1 20021106; ES 2185305 T3 20030416; HK 1028097 A1 20010202; PT 975919 E 20030331; RU 2191955 C2 20021027; TR 199902472 T1 20000621; UA 44366 C2 20020215; WO 9940376 A1 19990812

DOCDB simple family (application)

FR 9801206 A 19980203; AT 99901692 T 19990202; CN 99800201 A 19990202; DE 69903771 T 19990202; DK 99901692 T 19990202; EP 99901692 A 19990202; ES 99901692 T 19990202; FR 9900217 W 19990202; HK 00107292 A 20001116; PT 99901692 T 19990202; RU 99123191 A 19990202; TR 9902472 T 19990202; UA 99116030 A 19990202