

Title (en)

GAS HEATER WITH CLOSED COMBUSTION CIRCUIT

Publication

EP 0037333 B1 19840620 (FR)

Application

EP 81400488 A 19810327

Priority

- FR 8006823 A 19800327
- FR 8023325 A 19801031

Abstract (en)

[origin: US4366778A] This boiler is enclosed in a sealed casing forming a fore-heath which surrounds it on all sides while providing thereabout a space into which the combustion air arrives. The combustion air is injected under pressure into a space which surrounds the boiler and an exchanger is divided into two parts in the vertical direction by a refractory floor in one embodiment, which enables it to function as an exchanger in the upper part and in the lower part, cold water is received where the exchanger functions as an exchanger and a condenser; the burner may have features to reduce the pressure drop of the combustion air flow and to permit ease of assembly and disassembly.

IPC 1-7

F24H 9/02; **F24H 1/40**; **F24H 9/18**

IPC 8 full level

F24H 1/40 (2006.01); **F24H 9/02** (2006.01); **F24H 9/18** (2006.01)

CPC (source: EP US)

F24H 1/403 (2013.01 - EP US); **F24H 9/02** (2013.01 - EP US); **F24H 9/1836** (2013.01 - EP US); **F24H 2203/00** (2013.01 - EP US)

Citation (examination)

- FR 2411365 A1 19790706 - VAILLANT SARL [FR]
- GB 1324636 A 19730725 - WILSON & CO LTD HENRY

Cited by

EP2766685A4; GB2206189A; EP2948726A4; EP0385963A1; BE1002849A3; EP0759527A1; EP0532165A3; EP0350388A1; FR2634006A1; AU625175B2; WO2013055431A1; US10094619B2; EP2072938B1

Designated contracting state (EPC)

AT BE CH DE GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0037333 A1 19811007; **EP 0037333 B1 19840620**; CA 1154336 A 19830927; DE 3164282 D1 19840726; US 4366778 A 19830104; US 4401058 A 19830830

DOCDB simple family (application)

EP 81400488 A 19810327; CA 374006 A 19810327; DE 3164282 T 19810327; US 24792981 A 19810326; US 40987582 A 19820820