

Title (en)

A liquid fuel-fired furnace appliance for fireplace

Title (de)

Eine flüssigkeitsbrennstoffbetriebene Feuerung für Kamine

Title (fr)

Un fourneau à combustible liquide pour une cheminée

Publication

**EP 2549182 B1 20131113 (EN)**

Application

**EP 11460037 A 20110721**

Priority

EP 11460037 A 20110721

Abstract (en)

[origin: EP2549182A1] The invention consists of a liquid fuel-fired furnace appliance for a fireplace, in the form of metallic housing (11), comprising fuel tanks (2,21) and a furnace (P), mounted therein a fuel vaporising fence (3) and a fuel vapours distributing fence (9), a heating system (5) and a stop valve (10) blocking the vapours flow, and an electronic system (E) containing the controllers coupled with the sensors supervising combustion parameters and furnace switch-on/switch-off elements, which is characterised in that in one embodiment (A1) in the inside of the vaporising fence (3) an insert made from highly hygroscopic material (6) is placed, and the heating system (5) contains flat heating elements (51) and a built-in temperature sensor (C8), whereas a cover plate (111) of the furnace (P) housing (11) is fit out with a guide (112), and the casing (11) contains ventilation openings with built-in cooling fans (12) and placed inside thermal shields (113), whereas the fuel tanks (2,21) contain a temperature sensor (C9) coupled with an electronic system (E) and a set of the fuel level contact sensors (C7,C71) signalling minimal and maximal levels of the fuel (4), whereas another embodiment (A2) with one fuel tank (22) is characterised in that in the system delivering the fuel (4) from the fuel tank (22) to the furnace (P) an air pump (13) and an equalising chamber (14) equalising the fuel level with the fuel (4) level in the vaporising fence (3) are installed, and the fuel tank (22) is placed on any level, whereas a sensor (C18) placed inside the equalising chamber (14) equalising the fuel level controls switching-on and switching-off of the air pump (13).

IPC 8 full level

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Cited by

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