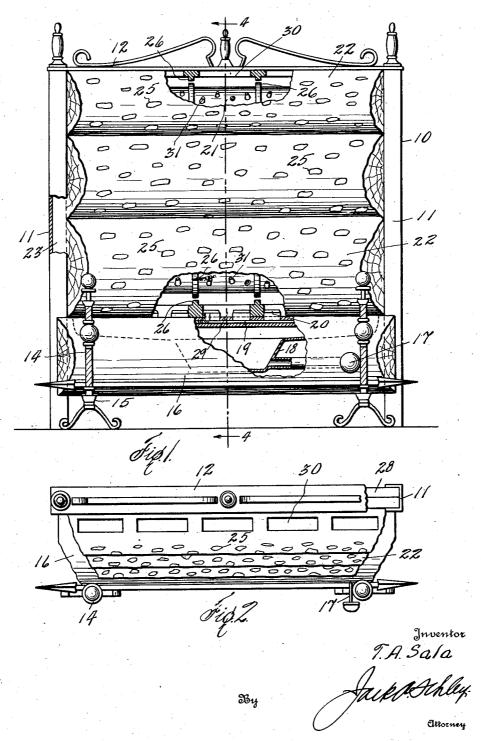
## T. A. SALA

GAS LOG HEATER

Filed July 21, 1925

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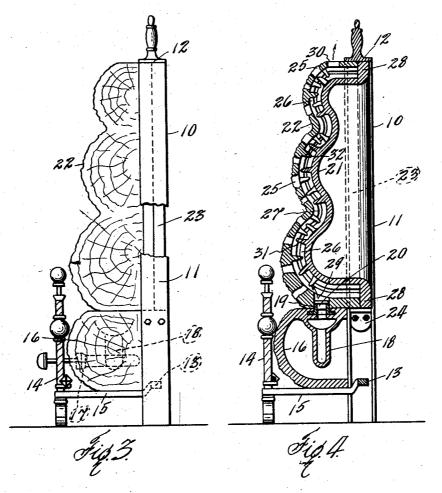


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2 Sheets-Sheet 2



By

attorney

Inventor I. A. Sala FacksAkhly

## UNITED STATES PATENT OFFICE.

THEODORE A. SALA, OF DALLAS, TEXAS.

GAS-LOG HEATER.

Application filed July 21, 1925. Serial No. 45,008.

This invention relates to new and useful

improvements in gas log heaters.

The object of the invention is to provide a complete gas log heater combined as a port-5 able unit and including certain new and novel features.

A particular object of the invention is to provide a base log equipped with a mani-

fold and gas burners.

Another object is to provide a radiant gas log front superimposed upon the base log and conforming thereto.

A further object is to provide a back frame with andiron supports and a base log 15 combined therewith, together with a radiant log structure thereabove having a vertical

Another object of the invention is to provide a log heater with a removable and re-20 placeable radiant front.

invention will be hereinafter described, together with other features of the invention.

The invention will be more readily under-

25 stood from a reading of the following specification and by reference to the accompanying drawings, in which an example of the invention is shown, and wherein:

Fig. 1 is a front elevation of a gas log 30 heater constructed in accordance with my

invention.

Fig. 2 is a plan view of the same,

Fig. 3 is a side elevation,

In the drawings the numeral 10 designates an upright support composed of opposed vertical channels 11 connected by a flat top sign have log rests 15 extending rearwardly and bent upwardly at a point of connection with the bar 13. This provides a metal supporting structure which may be suitably ornamental.

ed on the rests 15 and overlaps the channels considerable and therefore one overlangs at each end. The base log has a gas mixing valve 17 for connection with a gas supply pipe and the valve is connected with a mani- sinuous course in passing up the flues. Infold 18 in the log. A burner frame 19 is order to increase radiation of heat and to embedded in the top of the log over the rob the products of their heat to the fullest manifold. Gas burners 20 are inserted in extent I provide staggered fingers 31 on the 110 the frame. The entire burner is thus mainback member projecting into the flues. tained in the base log and along its top.

These fingers are staggered. On the over-

A radiant heating element simulating superimposed logs is mounted on the base log and the channels 11. This element comprises a back member 21 and a front mem- 60 ber 22. At the sides of the members are vertical flanges 23 which are engaged in the channels and supported under the bar 12 by brackets 24 (Fig. 4). These members may be formed of any suitable material, but one 65 of the features of the invention is to form the members of fire clay or equivalent material and to chemically treat, particularly the face member, whereby it will become more radiant or incandescent when sub-70 jected to the flames of the fire. By providing openings 25 at random in the face member 22 the flames and rising currents may be observed therethrough and the realistic effect will be enhanced.

aceable radiant front.

While the face member 22 may be formed according to any suitable design I have wention will be hereinafter described, to-shown it molded to represent a plurality of superimposed logs as they are usually piled in a fire place, the larger being at the bottom 80

and the smallest at the top.

The face member is formed with a comparatively thin concavo-convex wall, the inner side of which is comparatively smooth and forms the front sides of the flues between 85 the members. The back member is formed with its front side conforming to the rear side of the face member. Vertical ribs 26 extending from the members form flues 27 Fig. 4 is a transverse vertical sectional therebetween. The back member is formed 90 view taken on the line 4—4 of Fig. 1. with top and bottom flanges 28 and the member 22 has its upper and lower transverse edges in contact with these flanges.

At the bottom of each flue is an opening cross bar 12. The lower ends of channels 11 29 in the face member 22, while a similar 95 form legs and are connected by a bottom opening 30 is provided at the top of each cross bar 13. Andirons 14 of suitable de-flue. The burners 19 extend into the openings 29 and the flames and products of combustion pass up the flues. It will be seen that the ribs 26 do not contact and this allows 100 communication between the flues; while the ribs also provide heat radiating fins. The A hollow base log 16 of fire clay is mount- curvature of the face and back member is the other in the flues. This causes the products and currents to travel a circuitous or

the different parts, as well as modifications 10 and alterations may be made within the scope

of the appended claims.

What I claim, is:
1. In a gas log heater, a support comprising opposite uprights having inwardly di-15 rected channels, andirons connected with the support, a hollow base mounted on the andirons in front of the support, burners in said base, a back member extending above nels of the support, and a front member conthe base and having side flanges in said chan-20 nels. and a radiant front member mounted spaced therefrom to form a flue communi-upon the base in spaced relation to the back cating with said base, said front member member and having cooperating flanges within said channels, whereby a flue is formed extending from the burners in the channels.
25 base to the top of the heater.

In test

2. In a gas log heater, a support compris-

hanging bays of the face member I also pro- ing opposite uprights having inwardly divide fingers 32 extending into the flues, in alternate relation to the fingers 21. These fingers retard the passage through the flues and increase the radiation. This flue construction is claimed in my copending application Serial No. 45,007 filed July 21, 1925.

Various changes in the size and shape of view by the unichts for supporting the fuent. Various changes in the size and shape of ried by the uprights for supporting the front and back members in contact with the cross 35 bar.

3. In a gas log heater, the combination of an upright support including side channels, andirons having vertical posts and their rear ends secured to the support, a hollow base 40 mounted upon the andirons between the posts and support, an upright back member provided with side flanges engaging in the chanforming to the front of the back member and 45 having side flanges engaging the side flanges of the back and retained within said side

In testimony whereof I affix my signature. THEODORE A. SALA.