No. 715,914.

Patented Dec. 16, 1902.

A. E. WEIDINGER.

FIRE PLACE.

(Application filed May 31, 1902.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.

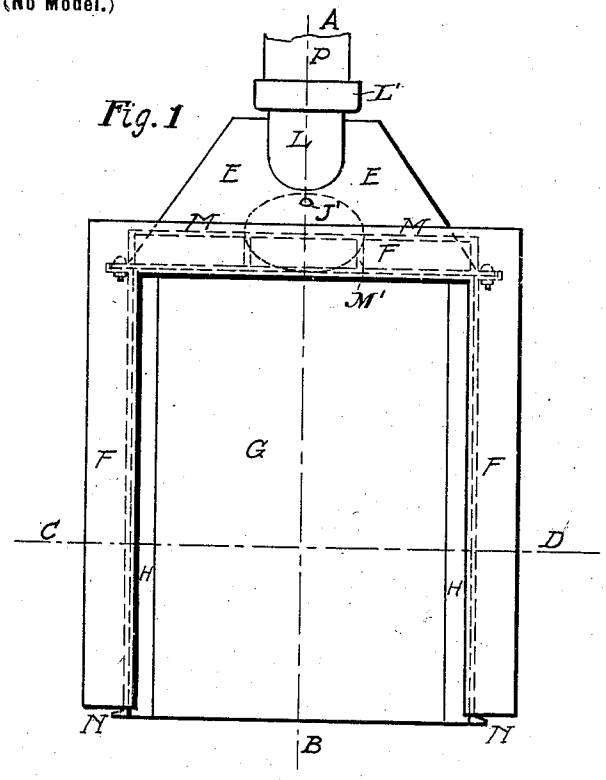


Fig. 4.

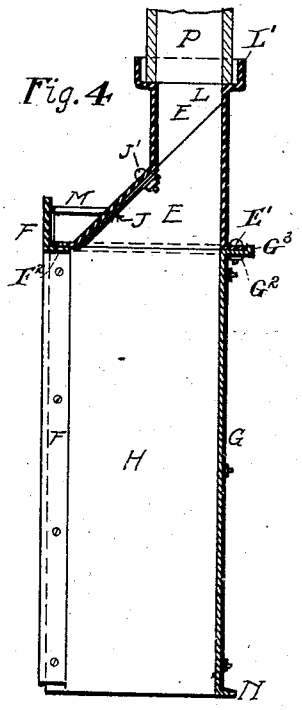


Fig. 2.

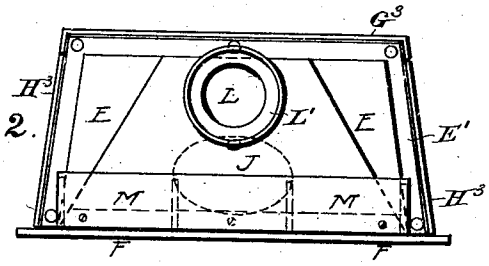


Fig. 5.

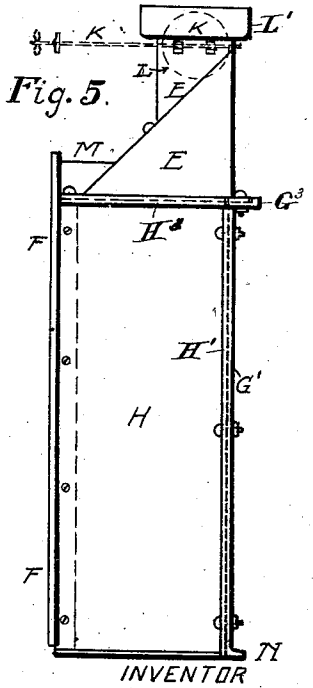
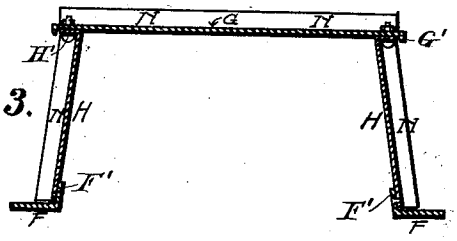


Fig. 3.



WITNESSES:

John A. Kehlenbeck.

John Lotka

INVENTOR

Albert E. Weidinger

BY Breese & Mauth

ATTORNEYS.

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A. E. WEIDINGER.

FIRE PLACE.

(Application filed May 31, 1902.)

(No Model.) 2 Sheets—Sheet 2.

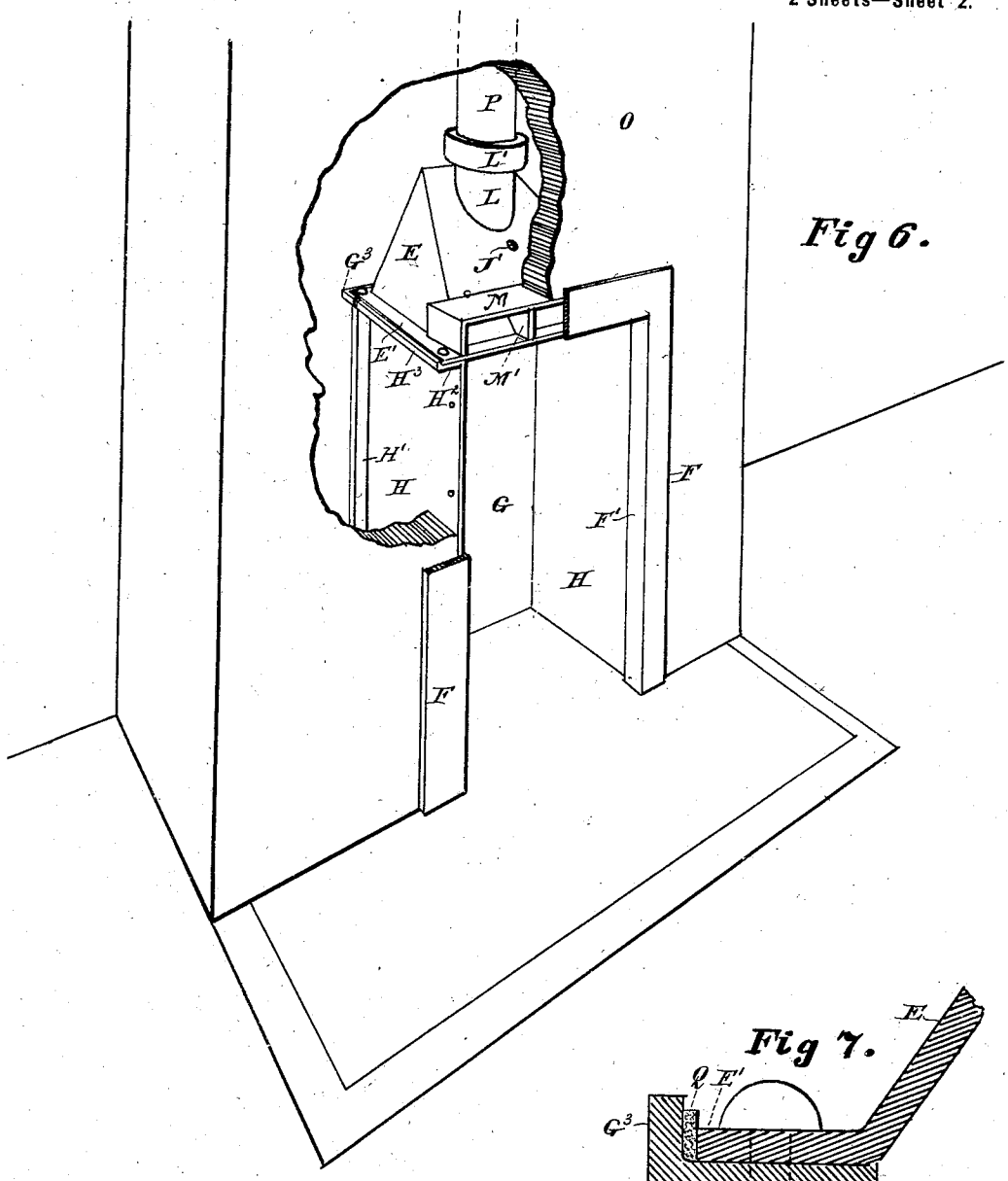


Fig 6.

Fig 7.

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UNITED STATES PATENT OFFICE.

ALBERT E. WEIDINGER, OF ENGLEWOOD, NEW JERSEY.

FIREPLACE.

SPECIFICATION forming part of Letters Patent No. 715,914, dated December 16, 1902.

Application filed May 31, 1902. Serial No. 109,625. (No model.)

To all whom it may concern:

Be it known that I, ALBERT ERNEST WEIDINGER, a citizen of the United States, residing at Englewood, Bergen county, State of New Jersey, have invented certain new and useful Improvements in Fireplaces, of which the following is a specification.

My invention relates to fireplaces, and has for its object to provide a simple construction of a fireplace or fireback and flue which is fireproof and gas-tight and which will be complete in itself without the aid of any brick or iron chimneys or flues.

I have designed this invention particularly for use in fireproof buildings of the modern system in which steel structures with fireproof floors, curtain-walls, and fireproof partitions are employed. I may, however, use my improved fireplace in connection with buildings of the old style and in conjunction with or in place of the ordinary brick chimneys and flues.

The invention consists in a certain novel construction of a metal fireplace formed with a metal throat and preferably provided with a damper in a peculiar position. A specific embodiment of my invention will now be described in detail, and the features which I consider novel over the state of the art will then be pointed out in the appended claims.

Reference is to be had to the accompanying drawings, in which—.

Figure 1 is a front elevation of my improved fireplace. Fig. 2 is a plan or top view thereof. Fig. 3 is a sectional plan on the line C D of Fig. 1. Fig. 4 is a sectional elevation on the line A B of Fig. 1. Fig. 5 is a side elevation of the fireplace. Fig. 6 is a perspective view showing my improved fireplace in position. Fig. 7 is a detailed sectional elevation showing the joint between two parts of my improved fireplace.

The improved fireplace, as illustrated by the drawings, consists of five pieces—namely, the top or throat E, the front (or frame) F, which may be ornamented, the back G, and the two sides H, which may also be ornamented. These parts are provided with flanges E′, F′, G′, and H′, respectively, and in addition to these the sides H, the back G, and front F are provided at their top portions with horizontal flanges H^2, G^2, and F^2, respectively. From the flanges H^2 and G^2 lips H^3 and G^3 are projected upwardly at their outer ends, and upon the said flanges, as well as upon the flange F^2, is adapted to rest the flange E′ at the bottom of the throat or top E. The parts are connected in any suitable manner, preferably by screws and nuts, as shown best in Fig. 7, and a suitable packing may be employed at each joint. As illustrated in Fig. 7, the packing Q may be arranged between the lip H^3 or G^3 and the outer edge of the flange E′ or in the form of a gasket between H^2 and G^2 and E′. By this construction the joints are effectually protected against the passage of smoke, gas, or sparks, even when no packing is employed. The packing may consist of cement, metal, or any other suitable material. A joint of the same character may be used between H′ and G and G′. The top or throat E is a body tapering upwardly in all directions, and therefore similar to a pyramid. At its highest point, which is at the back, the throat is provided with an outlet L, preferably cylindrical in shape and having an enlargement L′ at its free end. This enlargement is adapted to receive the lower end of the smoke-pipe P, which may be an ordinary drain-pipe sealed in the enlargement L′ in any suitable manner. As shown best in Fig. 4, the outlet L takes about one-half the depth of the fireplace. A damper may be employed, if desired, and this damper may be located within the outlet L, as indicated at K in Fig. 5; but preferably when a damper is employed it is arranged as shown in Figs. 1, 2, and 4. Here the damper J is elliptical in shape and is pivoted to the inclined front plate of the top, as at J′, so that it can be swung down, as shown in Fig. 4, to completely free the outlet, or it may be swung up, so as to obstruct the outlet more or less. By means of a nut located on the inside of the throat E the damper may be secured after adjustment in such a manner that tampering with the damper or accidentally changing its position is guarded against effectually.

On top of the throat, at the lower portion thereof—that is, at the front—I provide a shelf M, which may be stiffened by vertical lugs M′. This shelf takes the place of a fire-

place arch or bar and serves to carry the partition-block O, as shown in Fig. 6, which forms the chimney-breast above the fireplace.

The back lining G has a foot N to give it a good bearing upon the floor. The side linings H are preferably also provided with feet N and made to converge rearwardly, so as to better throw the heat into the room. The front frame F is removable without disturbing the remainder of the fireplace and may be adjusted forward and backward, if desired.

The improved fireplace above described may be made of cast-iron or any other suitable material, and I desire it to be understood that I do not restrict myself to the specific construction or materials described.

I claim as my invention and desire to secure by Letters Patent—

1. A fireplace comprising an open front frame having rearwardly-extending flanges at its horizontal and vertical inner edges, sides connected with the vertical flanges of the said front frame, and provided with outwardly-extending flanges at their rear and top edges, a back connected with the rear flanges of the sides, and having a horizontal flange at its upper edge, and a top having an outlet and provided with horizontal flanges resting on those at the top of the sides, back and front.

2. A fireplace comprising sides and a back connected therewith, in combination with a top or throat resting on said sides and back and sloping upwardly from front to rear, said top being provided with an outlet in its sloping portion adjacent to the back, and a damper pivoted to the sloping member of the top about midway between the highest and the lowest point of said slope.

3. A fireplace comprising sides and a back in combination with a throat or top resting on said sides and back, and provided with a substantially horizontal portion at its front edge, and with a member inclined upwardly from the rear edge of the said horizontal portion to the rear of the fireplace, and a shelf located upon the horizontal forward portion of the said top and terminating at the sloping rear portion thereof.

4. The combination with the sides and back, of a top or throat resting thereon and provided with an upper wall inclined upwardly to the back and having an outlet at its rear portion, and a damper pivoted to said upper wall adjacent to the outlet, and thus adapted to swing down so as to lie close to the lower front portion of said wall or to be swung up to obstruct the outlet more or less.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALBERT E. WEIDINGER.

Witnesses:

EDWARD RAQUÉ,

EVAN LORD GUNTER.