

E. D. MERRICK.
FIRE-PLACE FRONT.

No. 173,322.

Patented Feb. 8, 1876.

Fig. 1.

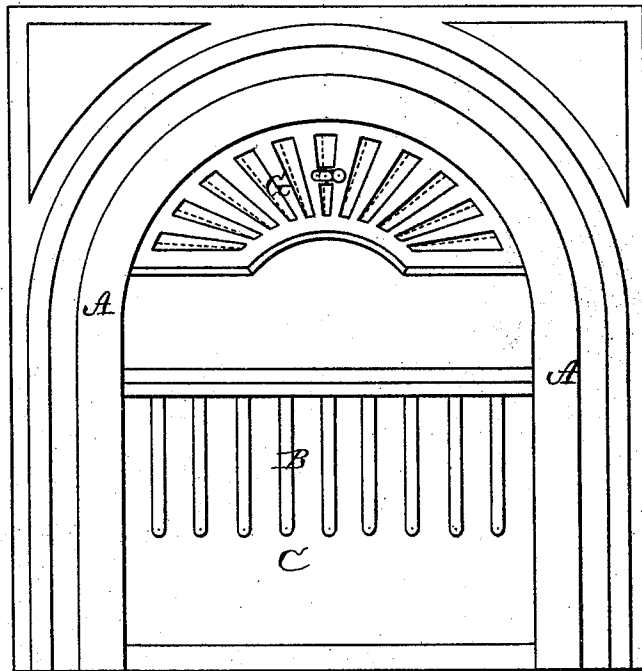


Fig. 2.

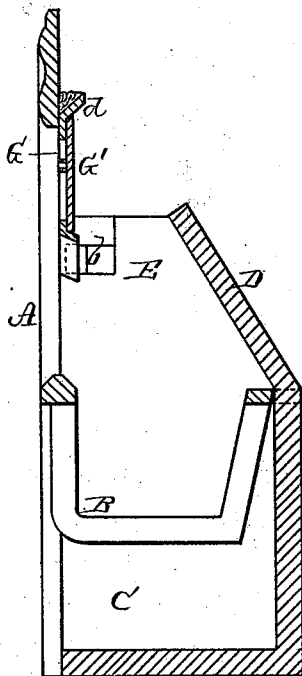


Fig. 3.

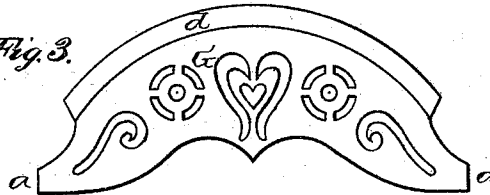
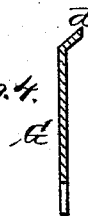


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

EDWARD D. MERRICK, OF NEW BRIGHTON, PENNSYLVANIA.

IMPROVEMENT IN FIRE-PLACE FRONTS.

Specification forming part of Letters Patent No. 173,322, dated February 8, 1876; application filed January 15, 1876.

To all whom it may concern:

Be it known that I, EDWARD D. MERRICK, of New Brighton, in the county of Beaver and State of Pennsylvania, have invented a new and valuable Improvement in Grate-Front; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a front view of my grate-front; and Fig. 2 is a transverse vertical sectional view of the same. Figs. 3 and 4 are detail views thereof.

My invention relates to grate-fronts for fire-place heaters; and it consists in the construction and general arrangement of a device for closing the upper part of the space between the grate and top of grate-front, as will be hereinafter more fully set forth.

In the annexed drawing, A represents the ordinary grate-front with basket-grate B inserted in the fire-place C. D is the inclined back wall of the fire-place, and E E the jambs. G is a semicircular plate, arranged to fit on the inside of the grate-front A in the upper portion, and a suitable distance above the top of the grate. The circle of this plate is of a radius a little larger than that of the circle of the grate-front, and at its lower corners it has projections *a a*, to rest in recesses in the jambs E, and there secured by bricks *b*, wedged or otherwise fastened in said recesses. Around the upper circular edge of the plate G is formed a flange, *d*, which is inclined inward and upward, as shown, whereby the smoke and heat

are turned away from the grate-front, and said flange thus protects the front from being injured by the heat.

It is well known to the trade that in japanned grate-front the japanning soon becomes cracked and peels off. The flange on my plate prevents this; and, to further protect the grate-front, the space between said flange and the front may be filled with plaster-paris or other suitable non-conducting material.

The plate G, it will be seen, is a permanent fixture in the fire-place, though, if required for repairs or other causes, it can be easily removed by simply taking out the bricks *b* in the jambs. This plate hides the usual black back wall of the fire-place. When plated it presents a neat and handsome appearance; and it may be made of any suitable material. Generally it will be open work, and have a central opening in its lower edge, to facilitate the admission of coal to the fire. It may be made as a register, with a second plate, *G'*, to open and close the openings in the plate.

What I claim as new, and desire to secure by Letters Patent, is—

The combination, with a grate-front, A, grate B, and fire-place C, of the semicircular open-work plate G, having projections *a* and inclined flange *d*, and the register-plate *G'*, substantially as described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

EDWARD D. MERRICK.

Witnesses:

A. D. GILLILANDE,
R. A. BROOKS.