

N. A. BOYNTON.

Frame for Fire-Place Heaters.

No. 165,298.

Patented July 6, 1875.

Fig. 1.

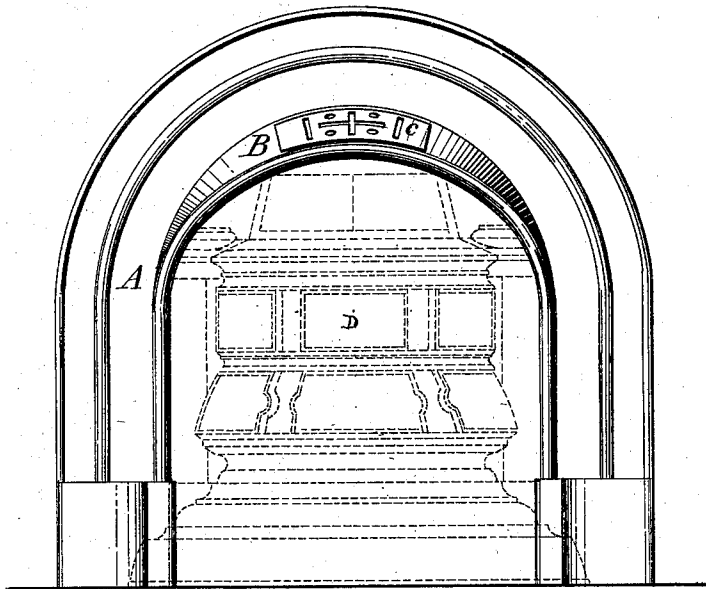
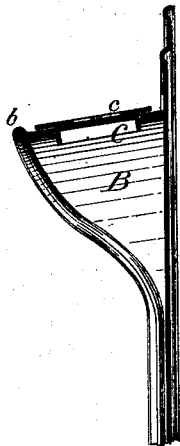


Fig. 2.



Attest:

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UNITED STATES PATENT OFFICE.

NATHANIEL A. BOYNTON, OF NEW YORK, N. Y.

IMPROVEMENT IN FRAMES FOR FIRE-PLACE HEATERS.

Specification forming part of Letters Patent No. **165,298**, dated July 6, 1875; application filed April 16, 1875.

To all whom it may concern :

Be it known that I, NATHANIEL A. BOYNTON, of New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Frames or Settings for Fire-Place Heaters; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon, which form a part of this specification.

Figure 1 is a front elevation. Fig. 2 is a vertical section, taken centrally from front to rear through the shield or deflector.

The object of the present invention is to provide means for deflecting the current of heat flowing directly upward from the top of the stove, so that it shall be disseminated outwardly into the room; and it consists, more particularly, in providing a plate or shield above and over the top of the stove, which, projecting outwardly into the room or apartment, intercepts the upflowing current of heat, and causes the same to be deflected away from the stove in a generally horizontal direction.

In the drawings, A denotes the usual plate or frame, which is placed in such relation to the fire-place heater or stove D as to make a finish or cover for the openings or places at the sides and top, between the stove or heater and the fire-place, into which it is placed. This is of any ordinary and usual size, shape, and configuration. Cast with or affixed to its top, usually to the inner or lower edge, and conforming in curvature, form, or shape therewith, is a shield or deflecting-plate, B. This is generally made and affixed so that it shall have a decided downward inclination toward its front; but it may be placed so that it shall be horizontal or inclined upwardly a little. This plate is usually widest at its central point, say at *h*, while the lines of curvature or slope at the sides flowing toward the vertical plate A meet it at such convenient points on either side as to present a seemly and pleasing effect. This said plate is so placed as to be a little above the top and over the front of the heater, the extent of its projection into the room being regulated by the distance the body of the heater is advanced forward from the front line of the fire-place or frame. In the top of this

shield or deflector B is an opening, C, which has a detachable hinged or movable cover, *c*. This cover may be ornamented with any design on its upper surface, or may be made with any open-work pattern.

As thus constructed and applied to the front of a fire-place heater or stove, the uses and advantages of this shield are very many and of very considerable value. According to the present method of setting fire-place heaters, there is nothing to obstruct or divert the volume of heat from its direct upward flow; consequently the warm air is constantly rising to the top of the apartment, and the diffusion or dissemination of heat is very slow. There is also a disadvantage from this flow of heat when a wooden mantel is placed over the top of the heater, because there is danger of igniting it; and even when a metal or stone mantel is placed above, oftentimes it becomes so heated as to be ignited, or to cause damage to the articles set upon it.

By my said device all this inconvenience and danger are avoided. The current of heat is diverted from the mantel, and at the point of its strongest momentum thrown into the room which is to be warmed. Thus the heat is more rapidly and equally diffused throughout the apartment.

This shield or plate can be made and applied in such shapes and forms as to conduce greatly to the exterior beauty of the heater and its setting. By removing the cover *c*, access can be had at any time to the parts of the stove inside the outer setting, whether this be desired for inspection, for cleaning, for repairing, or for any purpose.

Having thus described my invention, what I consider new, and desire to secure by Letters Patent, is—

The deflector or shield B, having an aperture, C, in the upper part, provided with a cover, and combined with the stove-frame, substantially as and for the purposes set forth.

In testimony that I claim the foregoing as my own, I affix my signature in presence of two witnesses.

NATHL. A. BOYNTON.

Witnesses :

HENRY T. RICHARDSON,
D. S. RICHARDSON.