J. C. CALHOUN.

GAS GRATE DEFLECTOR.

APPLICATION FILED NOV. 8, 1907.

951,363.

Patented Mar. 8, 1910.

Fig. 1.

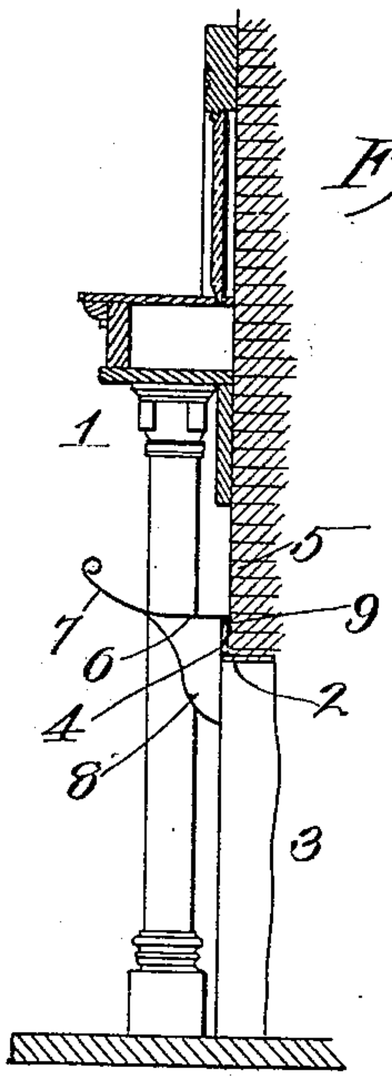


Fig. 2.

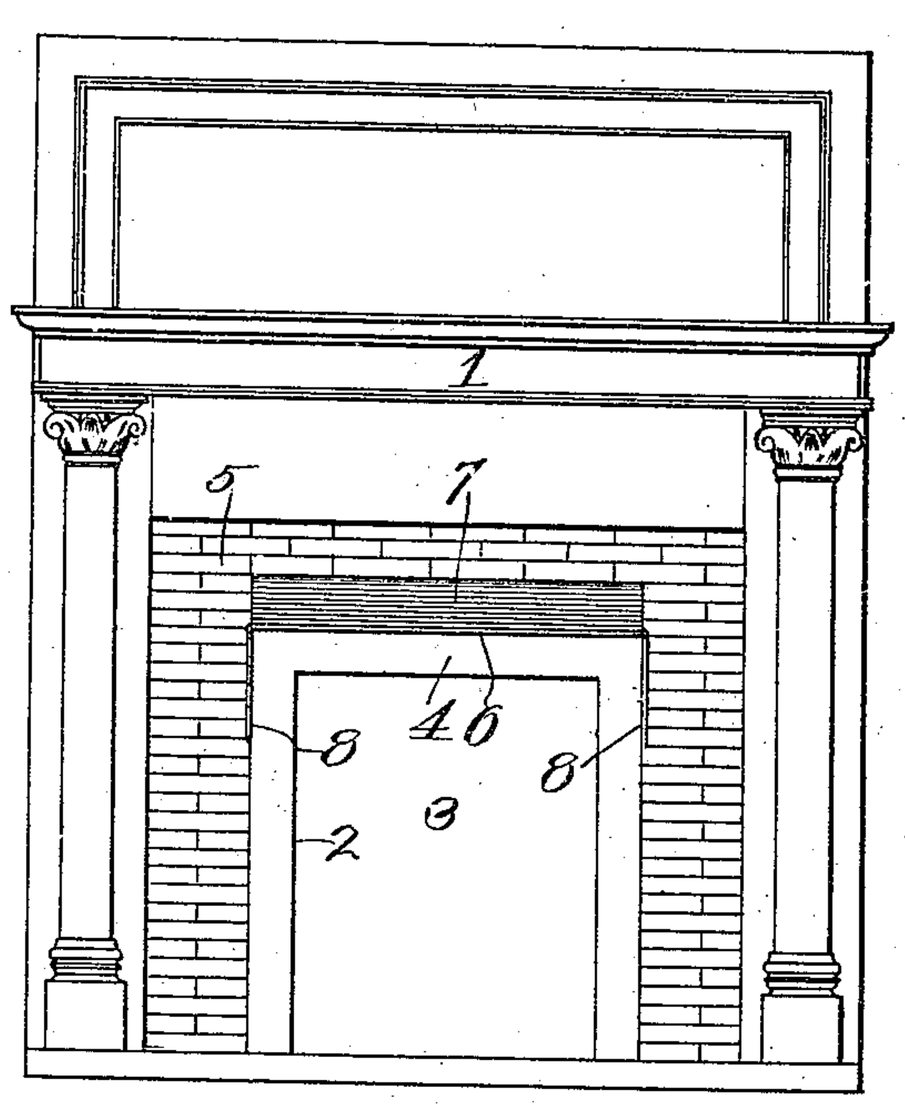
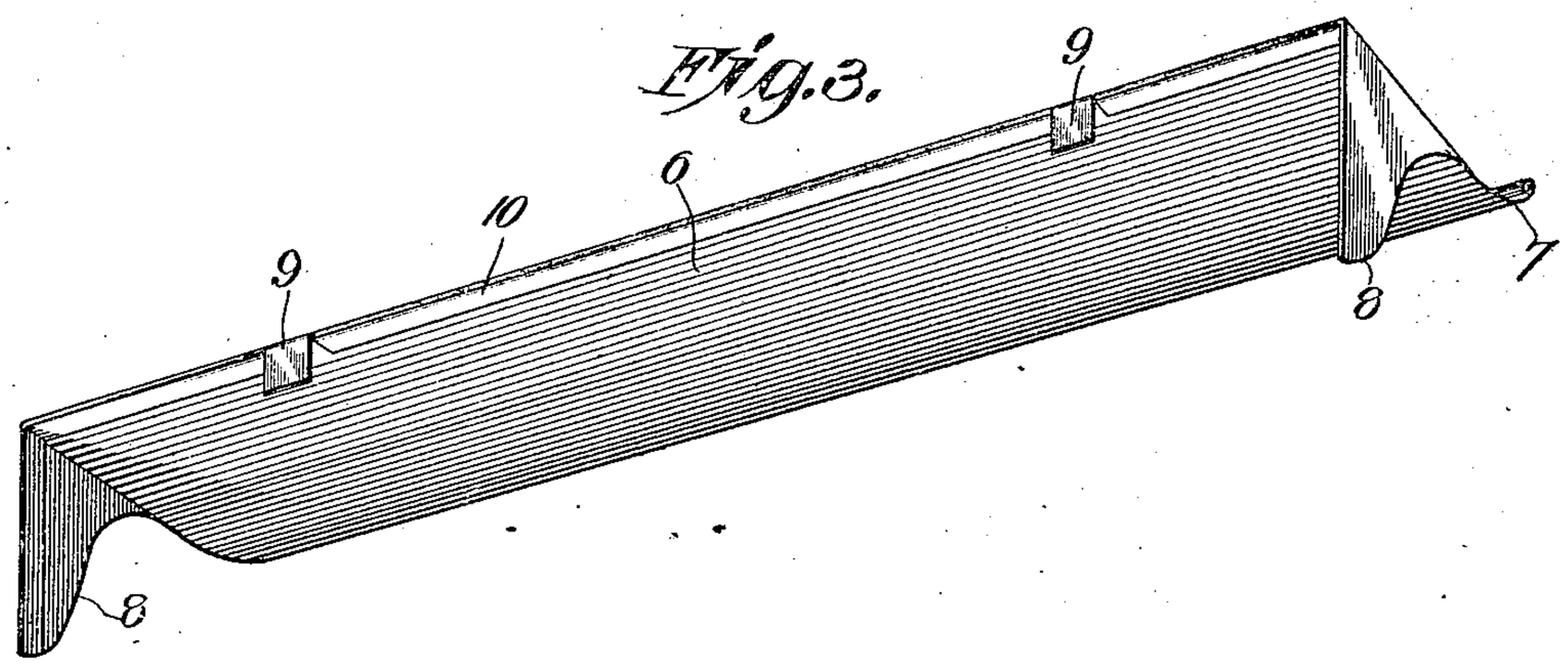


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN C. CALHOUN, OF KANSAS CITY, MISSOURI.

GAS-GRATE DEFLECTOR.

951,363. Specification of Letters Patent. **Patented Mar. 8, 1910.**

Application filed November 8, 1907. Serial No. 401,211.

To all whom it may concern:

Be it known that I, JOHN C. CALHOUN, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Gas-Grate Deflectors, of which the following is a specification.

This invention relates to heat deflectors for gas grates and my object is to produce a cheap and ornamental device of this character which will deflect the heat forwardly and thus prevent scorching or blistering of the mantel.

A further object is to produce a device of this character which can be easily and quickly secured in position without the use of screws or bolts.

To this end the invention consists in certain novel and peculiar features of construction and organization as hereinafter described and claimed; and in order that it may be fully understood reference is to be had to the accompanying drawing, in which—

Figure 1, is a vertical section taken through a gas grate frame equipped with a deflector embodying my invention, the said figure also showing a mantel to disclose its relation to the gas grate and deflector. Fig. 2, is a front view of the construction disclosed by Fig. 1. Fig. 3, is an enlarged perspective view of the deflector.

In the said drawing, 1 indicates a mantel and 2 the frame of the gas grate, not shown, below said mantel, said frame fitting in the fire-place 3, and provided with an upwardly projecting flange 4 at the front side of the tiling 5.

The deflector is formed of sheet metal and is constructed as follows:—6 indicates the body portion of length equal to the width of frame 2 and of width approximately the same as the shelf of the mantel, the said body portion by preference being curved upwardly and forwardly at 7, to deflect the heat upwardly and forwardly into the room. At its ends it is provided with substantially triangular extensions 8 which are bent downwardly to form braces. 9 are hooks or tongues depending vertically from the rear edge of the body portion 6 and preferably stamped out of the stiffening flange 10 formed by bending the metal back upon itself at the rear edge of the body portion and the braces 8. The deflector thus produced is placed with its rear edge on top of flange 4 and its braces 8 at opposite ends of said flange, the tongues or hooks 9 being slipped down between flange 4 and the tiling and the braces bearing against the face of the latter so as to support the deflector in the position shown in Figs. 1 and 2, in which position as will be readily seen, it intercepts the heat and deflects it forwardly into the room and thus protects the mantel from scorching, it being obvious also that the braces likewise tend to prevent the heat escaping from the ends of the deflector near the tiling and thus tend to give it an impetus upwardly and forwardly.

From the above description it will be apparent that I have produced a simple, cheap and durable deflector embodying the features of advantage enumerated as desirable and which obviously may be modified in minor particulars without departing from the spirit and scope of the appended claims.

Having thus described the invention what I claim as new and desire to secure by Letters-Patent, is:—

1. A heat deflector for open fireplaces, comprising a single piece of sheet metal, consisting of a body portion which curves upward at its front edge and terminates at such edge in a roll, braces depending vertically from the ends of the body portion with their rear edges in the same vertical plane as the rear edge of the body portion, and hooks extending vertically downward from the rear edge of the body portion.

2. A heat deflector for open fireplaces, composed of a single piece of sheet metal 6 doubled back under and upon itself to provide a stiffening flange 10 for such edge, and curved upwardly and forwardly at its front edge and terminating at such edge in a stiffening roll, substantially triangular braces 8 extending vertically downward from the opposite ends of the sheet rearward of the upwardly-curved front edge thereof, the rear edges of said braces occupying the same ver-

tical plane as the rear edges of the body of the sheet and having similar stiffening flanges, and hooks 9 stamped out of the stiffening flange of the body portion of the sheet and extending vertically downward from the same in the plane of its rear edge and the rear edges of said braces.

In testimony whereof I affix my signature, in the presence of two witnesses.

JOHN C. CALHOUN.

Witnesses:
H. C. RODGERS,
G. Y. THORPE.