

W. D. Guseman.

Fire Place.

N<sup>o</sup> 76,751.

Patented Apr. 14, 1868.

Fig. 1.

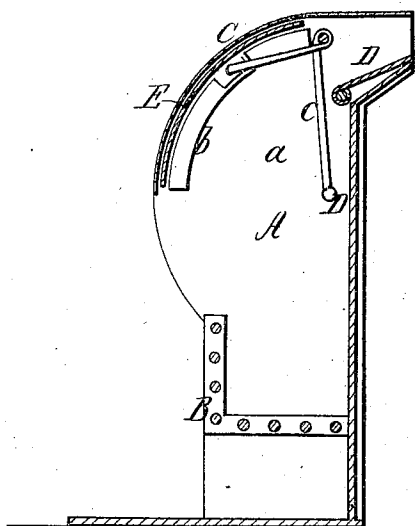
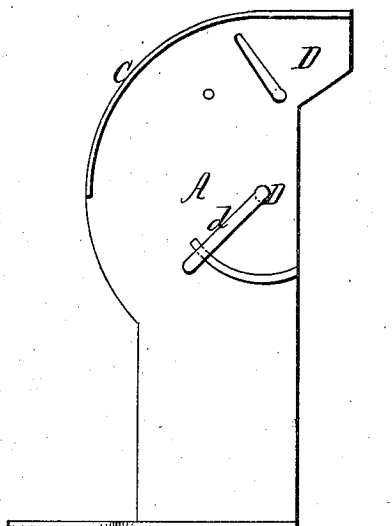


Fig. 2.



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# United States Patent Office.

W. D. GUSEMAN, OF MORGANTOWN, WEST VIRGINIA.

Letters Patent No. 76,751, dated April 14, 1868.

## IMPROVEMENT IN FIREPLACES.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, W. D. GUSEMAN, of Morgantown, in the county of Monongalia, and State of West Virginia, have invented a new and useful Improvement in Fire-Grates; 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 make and use the same, reference being had to the accompanying drawings, forming a part of this specification.

This invention relates to a new and useful improvement in fire-grates, for which Letters Patent were granted to me, bearing date June 30, 1863.

The present invention consists in providing the grate with a projecting front, which is some distance above the grate, and projects over or beyond the front of the same, as hereinafter fully shown and described, so as to catch all dirt which may emanate from the grate, and cause it to enter the flue, said projecting flue also increasing the draught of the grate.

The invention also consists in combining with the projecting front aforesaid a sliding blower or screen, as hereinafter set forth. In the accompanying sheet of drawings—

Figure 1 is a vertical central section of my invention.

Figure 2, a side view of the same.

Similar letters of reference indicate corresponding parts.

A represents the side-pieces of the grate, the upper parts of which are of curved form, and portions of circles which extend outward beyond the lower portions, between which portions the grate B is fitted, as shown in fig. 1. The upper parts of the curved portions of the side-pieces have a cap, C, attached, which extends down to about a line passing horizontally through the centre of a circle, of which the curved upper portions of the side-pieces form a part, said cap forming a projecting front to the grate, some distance above and at the outer side of the front of the grate, as shown clearly in fig. 1. This projecting front insures the passage of dirt which may emanate from the grate passing up into the flue D of the same, and said front also forms a hot-air chamber, *a*, above the grate, which greatly increases the draught, and effectually prevents smoke, gases, &c., escaping into the room.

Each side-piece A, at its inner side, and a short distance from the edges of the curved portions, has curved cleats *b* attached, to form guides for a curved blower or screen, E, which works between the cleats and the cap C, and is allowed to slide freely between the said parts.

The curvature of the blower or screen E corresponds with the curvature of the cap C, as shown clearly in fig. 1, and said blower or screen is moved, raised, and lowered, by bent arms *c* from a shaft, D, which has a lever, *d*, at one end, at the outer side of one of the side-pieces A. The blower or screen, when lowered, has its lower edge in contact with the top of the grate B, and, when raised, its upper edge is about in line with the lower edge of the cap or projecting front C.

When a strong draught is required, as for instance in kindling a fire, or after fresh coal is put on, the blower or screen is moved down, so as to completely cover the space between the lower edge of the cap C and the upper part of the grate B.

I do not claim separately the blower or screen, as that has been previously used, and formed one of the features of the fire-grate formerly patented by me.

Having described my invention, I claim as new, and desire to secure by Letters Patent—

1. The projecting front or cap C, above and beyond the perpendicular line of the front of the grate, substantially as and for the purpose specified.
2. The sliding blower or screen E, in combination with the projecting front or cap C, substantially as and for the purpose set forth.

The above specification of my invention signed by me, this 1st day of February, 1868.

W. D. GUSEMAN.

Witnesses:

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ALEX. F. ROBERTS.