

T. PHILLIPS.
Fireplace Grate.

No. 108,180.

Patented Oct. 11, 1870.

Fig. 1.

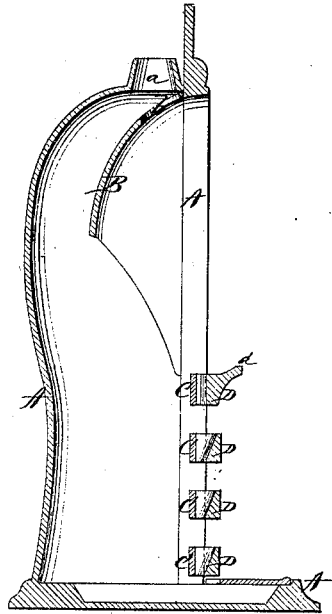
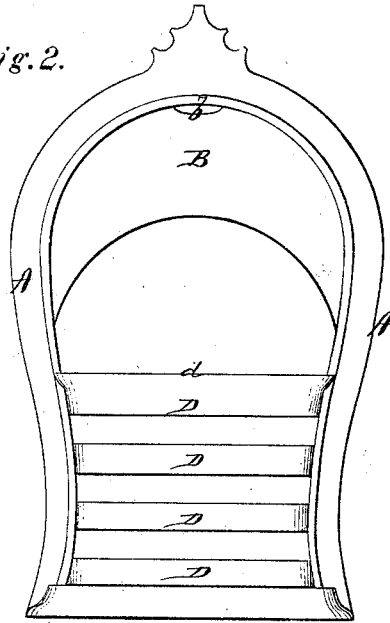


Fig. 2.



Witnesses.
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THOMAS PHILLIPS, OF CADIZ, OHIO.

Letters Patent No. 108,180, dated October 11, 1876.

IMPROVEMENT IN FIRE-PLACES.

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, THOMAS PHILLIPS, of Cadiz, in the county of Harrison and State of Ohio, have invented a new and valuable Improvement in Stoves; 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 drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of my stove in transverse vertical section, and

Figure 2 is a front elevation of the same.

The nature of my invention consists in certain improvements on what is known as the open stove, as will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation.

A represents the body of the stove, which is open at the front, and at the top provided with an opening, *a*, where the stove-pipe is attached.

Inside of the top of the stove A is a plate or hood, B, connected with the arch in front, and extending back over the fire about six inches, and then inclining downward about the same distance.

The air, in passing under the arch of the hood, comes in contact with the fire, carrying with it the blaze and heat of the fire against and into the rear part of the stove, thereby causing it to heat, without the incumbrance of doors, and, furthermore, makes a full, open fire with increased draught.

At the top of the hood B is a hole, *b*, to carry off puffs of smoke that may fail to pass under the rear arch.

Small stoves will not need this hole *b*, but in larger ones it is preferable.

C C represent the usual grate-bars, in front of which, an inch (more or less) distant, are placed thin ornamental bars, D D, making a double grate and forming a flue, through which the ashes fall, allowing the hearth and whole front to be kept clean and neat.

The fender *d*, formed on the top bar D, prevents all danger from fire falling out.

Having thus fully described my invention,

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

1. In combination with the usual grate-bars C C, the additional bars D D, constructed and arranged substantially as and for the purposes herein set forth.

2. The combination of the stove A, plate or hood B, grate-bars C C, and additional bars D D, all constructed and arranged substantially as and for the purposes herein set forth.

3. The upper grate-bar, provided with a concave fender, *d*, substantially as and for the purposes specified.

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

THOS. PHILLIPS.

Witnesses:

W. P. LUPTON,
W. J. CESSNA.