

G. S. HORN.

Grates for Fuel-Magazines.

No. 148,885.

Patented March 24, 1874.

Fig. 1.

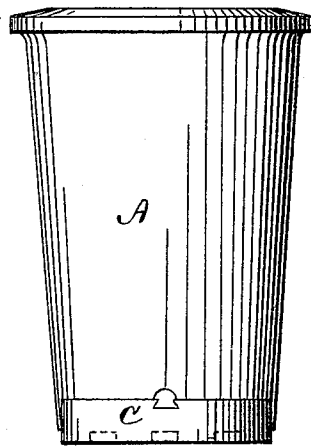


Fig. 4.

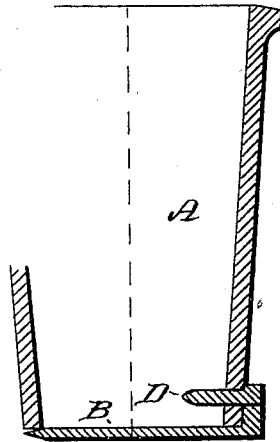


Fig. 2.

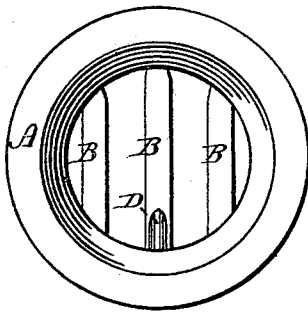
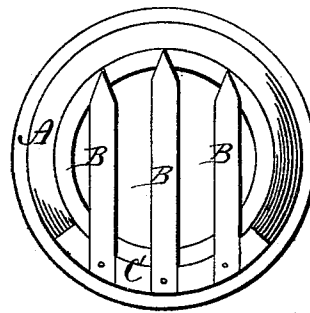


Fig. 3.



Witnesses;
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UNITED STATES PATENT OFFICE.

GEORGE S. HORN, OF SCRANTON, PENNSYLVANIA.

IMPROVEMENT IN GRATES FOR FUEL-MAGAZINES.

Specification forming part of Letters Patent No. 148,885, dated March 24, 1874; application filed February 4, 1874.

To all whom it may concern:

Be it known that I, GEORGE S. HORN, of Scranton, in the county of Luzerne and State of Pennsylvania, have invented certain new and useful Improvements in Magazine or Self-Feeding Stoves, commonly known as Base-Burners; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon.

The nature of my invention consists in a grate to be applied under the lower end of the magazine of a self-feeding heating-stove, for the purpose of retaining the coal in the magazine while the stove is being cleaned out preparatory to building a new fire, as will be hereinafter more 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, referring to the annexed drawing, which forms a part of this specification, and in which—

Figure 1 is a side elevation of the magazine of a self-feeding stove, with my invention attached thereto. Fig. 2 is a plan view, and Fig. 3 a bottom view, of the same. Fig. 4 is a transverse vertical section, showing the means by which my grate is fastened.

A represents a magazine of a self-feeding stove, constructed in any of the known and usual ways. The grate to be applied at the lower end of the magazine is composed of a series of pointed bars, B B, attached to or cast in one piece, with a curved or segmental piece, C, from the lower edge of which the grate-bars project. From this piece C also projects a pin, D, which enters a hole made for that purpose at the front, near the lower end of the magazine, to hold the grate in place when used. When a fire goes out, it almost invariably happens that the magazine is partly, if not quite, filled with coal, and in cleaning out the ashes, without my grate, all

this coal that is in the magazine goes down in the ash-pan with the ashes, causing a great waste, as well as making a very dirty and hard job to try to separate the coal and ashes. The grate B C is very simple, and can be used by any child that is old enough to be intrusted to build a fire in a stove. When a fire goes out it is only necessary to open the stove-door and put in the magazine-grate. The usual fire-grate of the stove may then be dumped, and the ashes cleaned out, the coal in the magazine being retained therein by the magazine-grate. The wood may then be put in, as usual, on the fire-grate, and when it becomes sufficiently ignited the magazine-grate is pulled out by means of a pair of tongs, and the coal falls from the feeder onto the wood, and the fire is built.

This grate may be used with any-sized stove or any-sized coal. If larger coal is used, the grate-bars will be made narrow, so as to be easily pushed through the coal.

I am aware that plates have been inserted through slots or openings in the magazine, near the bottom thereof, for the same purpose sought by me. I am also aware that false grates have been used, in connection with a fire-pot, below a magazine, held by a shoulder, which bears against the horizontal bar of the fire-pot, as in the case of the Patent No. 128,425, of June 25, 1872. Such, therefore, I do not claim; but

What I do claim is—

The supplementary grate B, provided with the attaching means or projection D, in combination with the magazine of a self-feeding stove, as specified.

In witness that I claim the foregoing I have hereunto set my hand this 13th day of January, 1874.

GEORGE S. HORN.

In presence of—

L. M. BUNNELL,
M. J. WILSON.