

A. C. CORSE.

Improvement in Base-Burning Stoves.

No. 114,928.

Patented May 16, 1871.

Fig. 1.

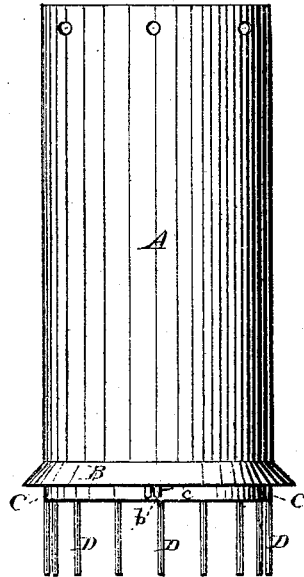
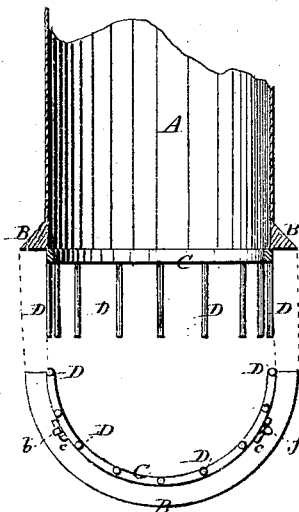


Fig. 2.



Witnesses.

*Adsett Mente*  
*W. H. Poole*

Inventor.

*Albert C. Corse, by*  
*Prindle and Tyler*  
Attys.

# United States Patent Office.

ALBERT C. CORSE, OF TROY, NEW YORK, ASSIGNOR TO EDDY, CORSE & CO.,  
OF SAME PLACE.

Letters Patent No. 114,928, dated May 16, 1871.

## IMPROVEMENT IN BASE-BURNING STOVES.

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, ALBERT C. CORSE, of Troy, in the county of Rensselaer and in the State of New York, have invented certain new and useful Improvements in Base-burning Stoves; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a side elevation of a magazine for containing fuel as improved, and

Figure 2 is a vertical central section and a lower end view of the same.

Letters of like name and kind refer to like parts in each of the figures.

My invention relates to a class of heating stoves provided with magazines for containing a supply of fuel; and

It consists in combining with a magazine a forked section attached to the lower end thereof in the manner and by the means substantially as and for the purpose hereinafter set forth.

In use, the lower end of a magazine immediately over the fire-pot is exposed to so intense a degree of heat as to render it necessary to protect said part, to accomplish which object many devices have been used, such as fire-brick, an annular cast-iron pipe, &c., all of which, however, have been open to serious objections, chief among which were their large expense and the difficulty experienced in their renewal.

In my invention these difficulties are removed by the production of an attachment that, while affording complete protection to the magazine, is durable and cheap, and permits the employment of much lighter iron in the construction of said magazine than has heretofore been practicable.

In the annexed drawing—

A represents a magazine constructed of thin cast or rolled metal and having any desired form.

Secured to or forming a part of the lower end of said magazine is an annular ring of cast metal, B, having its lower edge flush with the corresponding edge of said magazine, and from thence tapering inward and upward at its outer side, as shown, the object of said ring being to give increased breadth to the lower end of said magazine.

Immediately below the ring B is a section composed of a second ring, C, somewhat less in size than the former and provided, at equidistant points around its lower

edge, with a series of bars, D, which project vertically downward, the whole being formed of or from cast metal.

Two or more lugs, *c*, having their lower edges flush with the lower end of the magazine, and their upper edges inclined upward in a wedge form, are attached at equidistant points around the periphery of the ring C, and engage with corresponding lugs *b* that project downward and inward from the ring B, and securely lock said section upon the magazine, while at the same time permitting of its ready detachment therefrom.

If desired, the section may be secured to the magazine by means of bolts, rivets, or other equivalent devices.

As thus constructed the magazine, when in use, is found to possess the following advantages, viz.:

First, the lower end is completely protected from injurious action of the fire, so as thereby to render it more durable and permit the employment of lighter metal in its construction, and consequently materially lessen its cost.

Second, being constructed of or from cast metal, and requiring no finishing or fitting after leaving the sand, the forked section can be renewed, when necessary, at a comparatively small expense and with little trouble.

Third, by the use of the forked section the gases generated within the magazine are more readily permitted to escape, and, in addition thereto, the light and heat from the incandescent coal at or within the lower end of said magazine are permitted to pass freely outward, and thereby materially increase the effective size of the fire without increase of the amount of fuel consumed.

Having thus fully set forth the nature and merits of my invention,

What I claim as new is—

In combination with the magazine A, the forked sections C and D attached to its lower end in the manner and by the means substantially as and for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand this 24th day of February, 1871.

ALBERT C. CORSE.

Witnesses:

W. P. ALLENDORPH,  
C. H. McGRATH.