

(No Model.)

J. J. SIGHTS & E. R. WALKER.
FURNACE.

No. 407,372.

Patented July 23, 1889.

FIG. 1.

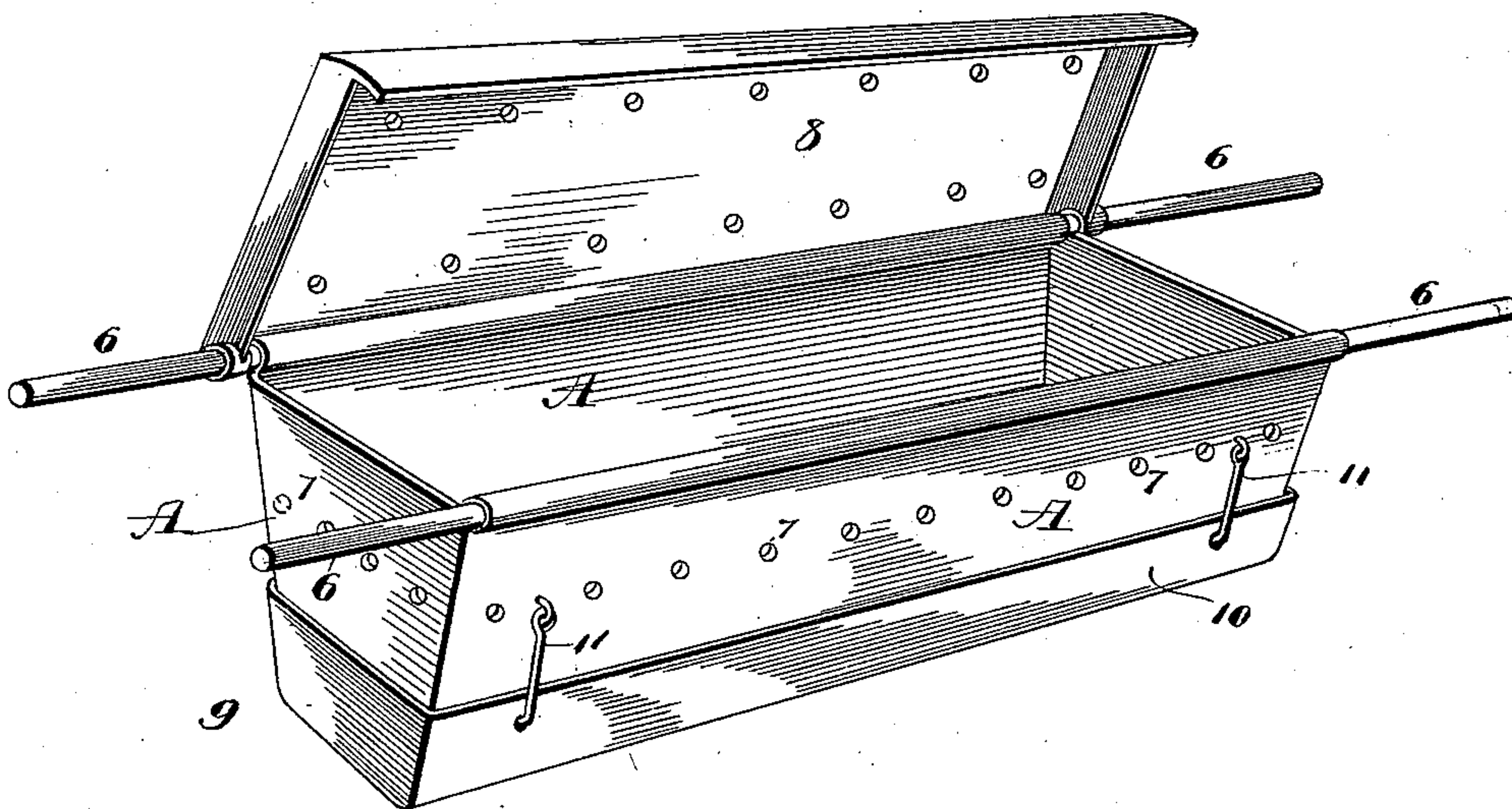


FIG. 2.

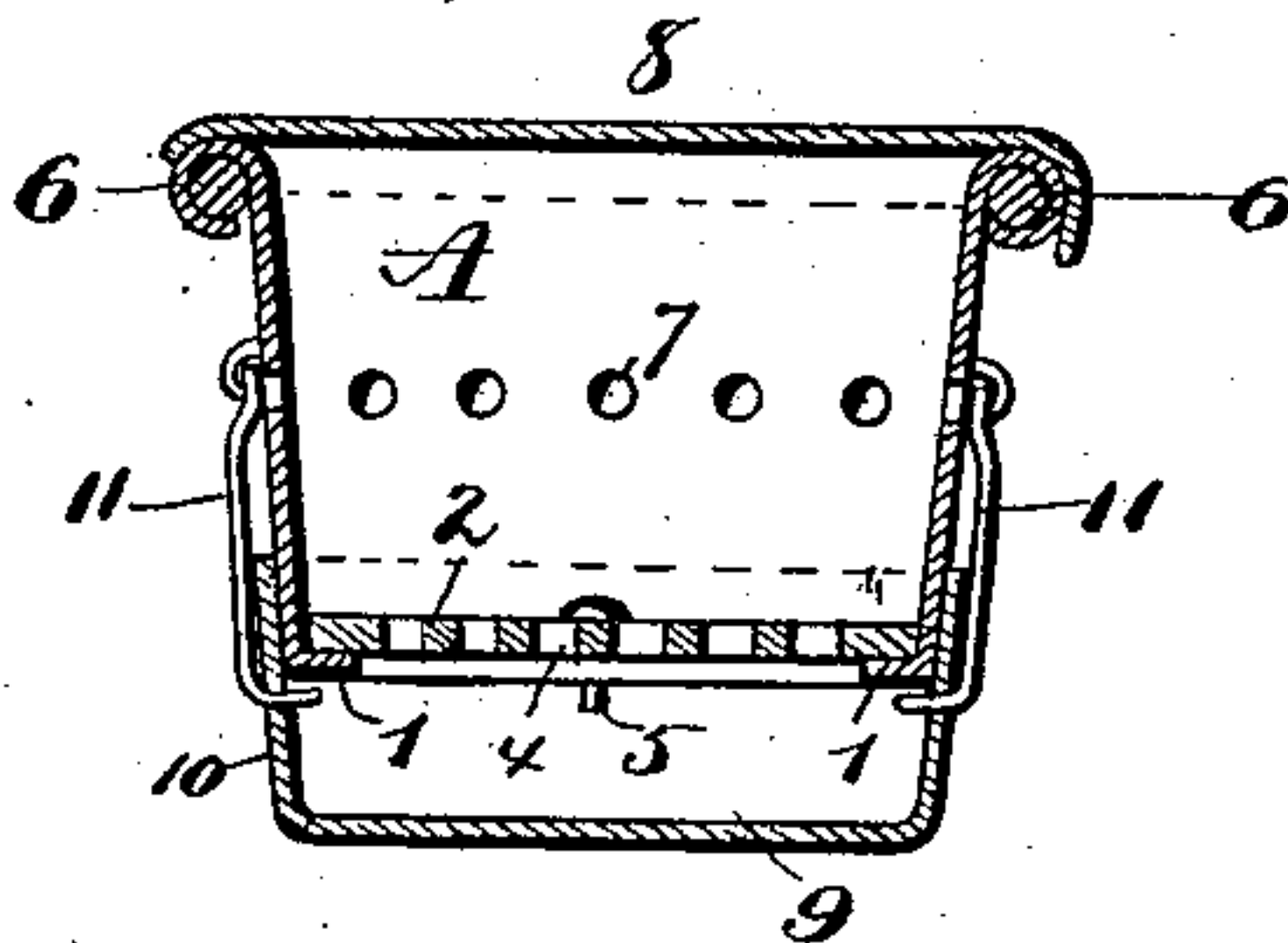
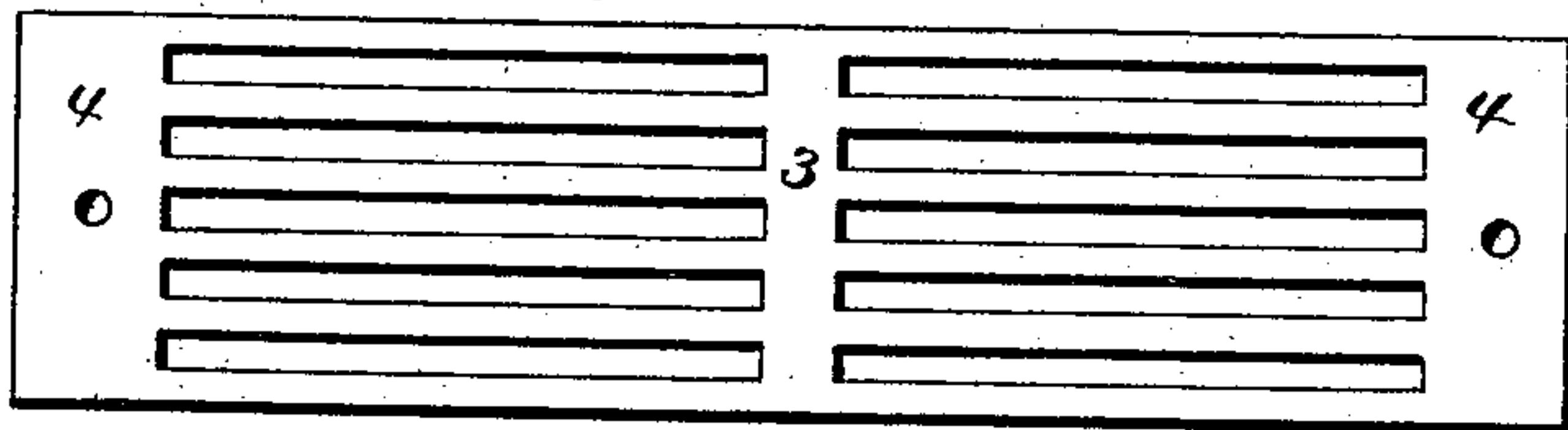


FIG. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

JAMES JEFFRIS SIGHTS AND EDWIN RUTHVIN WALKER, OF ROBARD,
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FURNACE.

SPECIFICATION forming part of Letters Patent No. 407,372, dated July 23, 1889.

Application filed March 12, 1889. Serial No. 302,942. (No model.)

To all whom it may concern:

Be it known that we, JAMES JEFFRIS SIGHTS and EDWIN RUTHVIN WALKER, of Robard, in the county of Henderson and State of Kentucky, have invented certain new and useful Improvements in Furnaces; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to an improvement in furnaces for curing tobacco.

The object is to obtain a furnace for curing tobacco, which may be used on the plank floors of barns, stemmeries, or factories without danger of fire, or which may as well be suspended on trestles or placed upon the ground with equally good results; and a still further object is to provide a furnace which may be easily and cheaply made by a blacksmith or tinner with a very slight expenditure of time or labor.

With these ends in view our invention consists in certain novel features of construction and combinations of parts, as will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in perspective of our improved furnace. Fig. 2 is a vertical section, and Fig. 3 is a detached view, of the grate.

A represents the body of the furnace. This may be made of sheet metal—such as sheet-iron—if desired, and in a single piece, with its ends cut so as to lap over each other and be secured in order to form an oblong receptacle with sloping sides in about the proportions shown in the drawings. Of course other material might be employed, and the whole body might be of cast metal, if desired, as this is entirely left to the fancy of the manufacturer and not constituting an essential feature of the present invention. The bottom is open, consisting of a continuous flange 1, extending inwardly from the sides and ends to receive and support the grate 2. This grate 2 consists of the usual bars with narrow spaces between them. It is just long and wide enough to rest in the furnace and on the flange 1. The grate is strengthened through its middle

by web 3, and it also has webs 4 4 at the ends, by which it may be held by rivets, bolts, or similar means 5 5 to the flange 1. The sides of the furnace slope outwardly, and at the edges are rounded or curled over to receive and hold the handle-rods 6 6, by which the furnace is carried from place to place or suspended. The sides also have perforations 7 7 therein, whereby a draft is produced over the coals.

To one of the handle-bars the lid or cover 8 is hinged, it being bent down at its edges to extend over the edges of the receptacle. This cover also is perforated, and ordinarily when closed produces about the right draft for combustion, due to the perforations therein and in the sides.

When the furnace is set on the ground or hung up, the parts described are all that is necessary; but when placed on a barn or stemmery floor the ash-pan 9, having the flanged edges 10, which extend up over the bottom of the furnace, is held by hooks 11 11 to the furnace, said hooks extending into perforations in the sides.

The practical use of our invention among farmers and others using it has satisfactorily demonstrated its utility and superiorities, and it is evident that slight changes might be resorted to in the form and arrangement of the several parts described without departing from the spirit and scope of our invention; hence we would have it understood that we do not wish to limit ourselves to the exact construction herein set forth; but,

Having fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The combination, with a body having a movable cover and a grate forming the bottom of said body, of an ash-pan detachably secured to the body, substantially as set forth.

2. The combination, with the body and handle-bars, of a cover hinged to one of said handle-bars, substantially as set forth.

3. The combination, with the body having perforated sides and a grate secured to the bottom, of handle-bars connected with the sides, and a perforated lid or cover hinged to

one of the handle-bars, substantially as set forth.

4. The combination, with the body having perforated sides, a continuous flange projecting inwardly from the sides and ends, and
5 a grate secured on the flange, of a perforated lid or cover hinged to one of the handle-bars, and an ash-pan hooked to the body, substantially as set forth.

In testimony whereof we have signed this specification in the presence of two subscribing witnesses.

JAMES JEFFRIS SIGHTS.
EDWIN RUTHVIN WALKER.

Witnesses:

WILLIAM EBLEN,
A. BROOKS.