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PATENTED APR. 21, 1908.

A. F. MILLER.

FURNACE.

APPLICATION FILED AUG. 30, 1907.

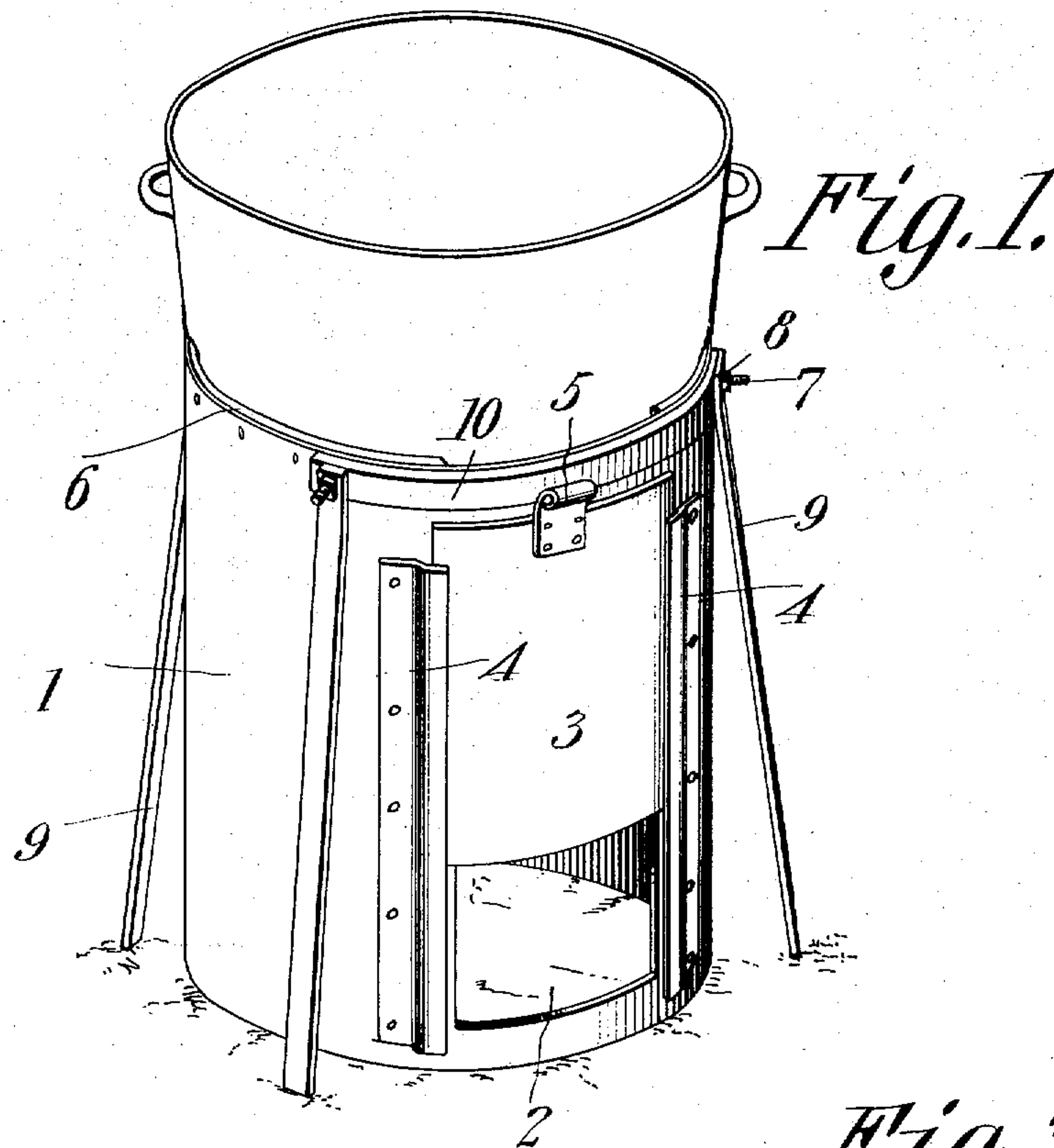
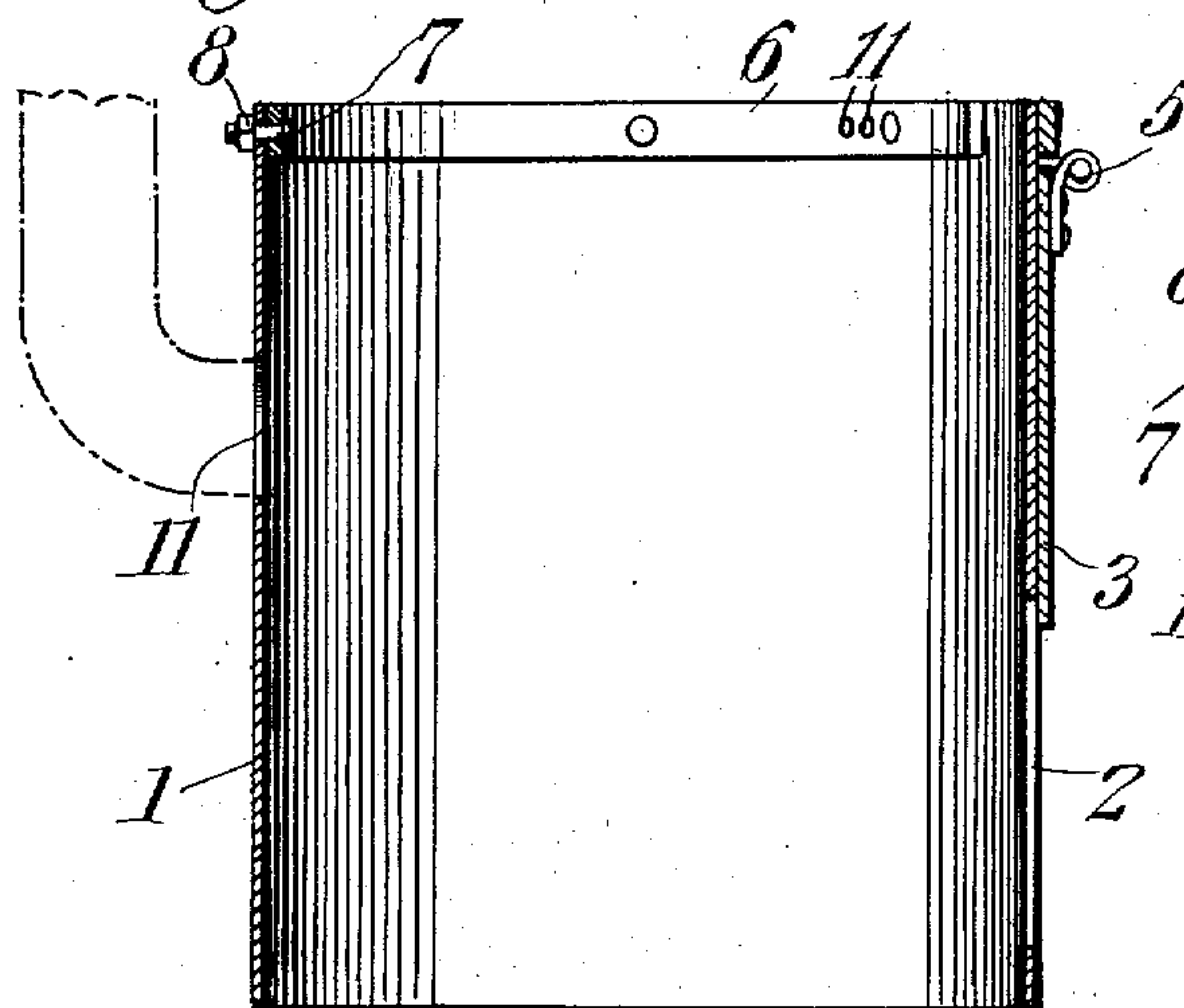


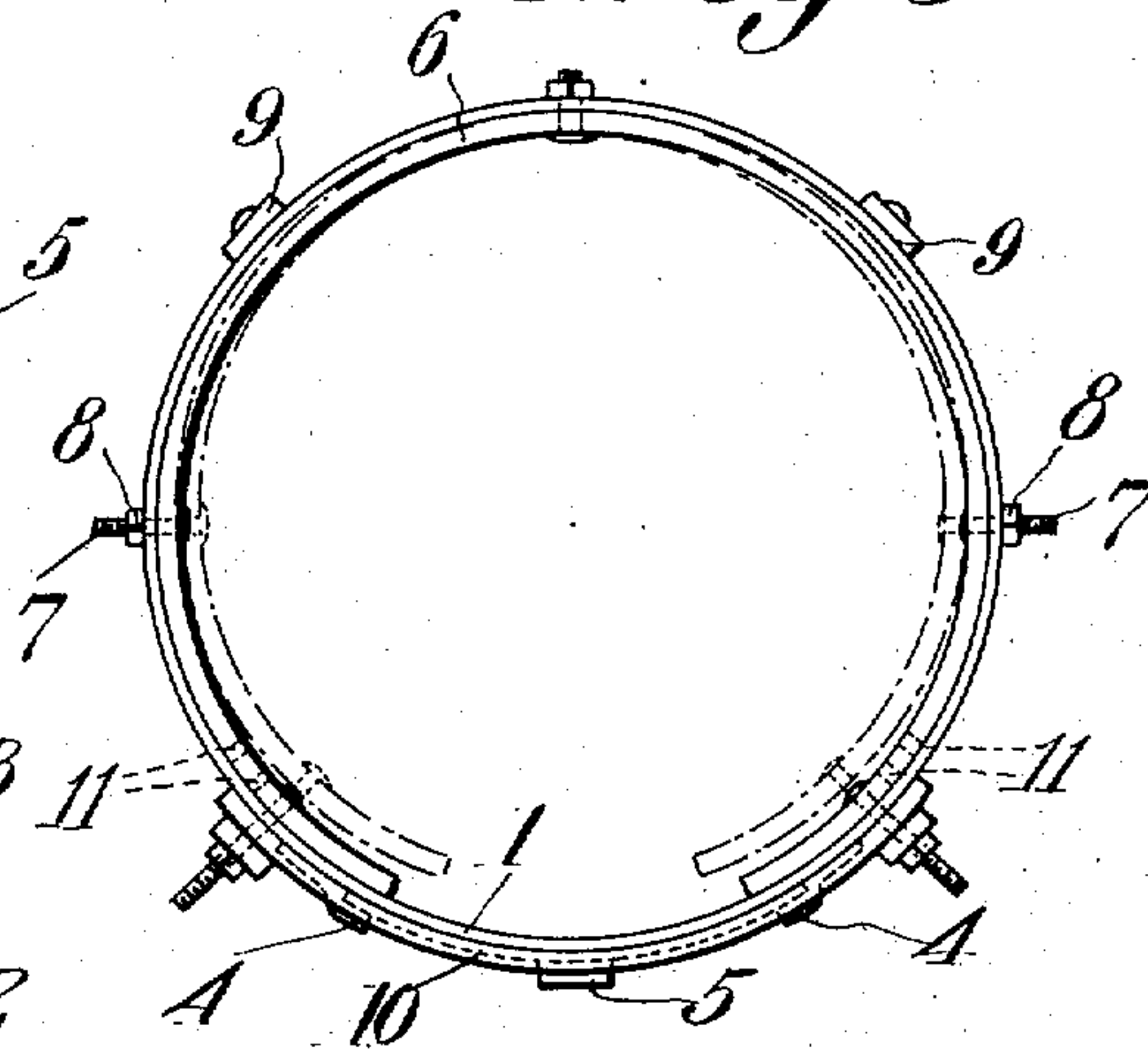
Fig. 2.



WITNESSES:

E. J. Stewart
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Fig. 3.



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ANDY F. MILLER, OF HENDERSON, TENNESSEE.,

FURNACE.

No. 885,356.

Specification of Letters Patent.

Patented April 21, 1908.

Application filed August 30, 1907. Serial No. 390,818.

To all whom it may concern:

Be it known that I, ANDY F. MILLER, a citizen of the United States, residing at Henderson, in the county of Chester and State of Tennessee, have invented a new and useful Furnace, of which the following is a specification.

This invention relates to portable furnaces, such as are used for agricultural and domestic purposes.

The object of the present invention is to simplify the construction of such furnaces, and to impart added utility thereto, whereby the range of usefulness will be materially increased, and the operation rendered more certain.

With the above and other objects in view, as will appear as the nature of the invention is better understood, the same consists, generally stated, in a furnace embodying an open-ended body and a circumferentially adjustable internally arranged utensil support at one end thereof, whereby the furnace may be readily adapted for supporting pots of different sizes.

The invention consists further in a domestic furnace embodying a cylindrical open-ended body provided with suitable supporting legs and a draft door adjustable from the lower end of the body upward, whereby the combustion of the fuel may be readily controlled, and a circumferentially adjustable internally arranged utensil support adapted to accommodate pots, kettles and the like, of different sizes.

The invention consists further in the various novel details of construction of a portable furnace, as will be hereinafter fully described and claimed.

In the accompanying drawings forming a part of this specification and in which like characters of reference indicate corresponding parts, Figure 1 is a view in perspective of a portable furnace constructed in accordance with the present invention. Fig. 2 is a vertical longitudinal sectional view. Fig. 3 is a top plan view.

The body 1 of the furnace, which is open at both ends, may be constructed of any suitable material, preferably of heavy sheet metal, and may be of any desired contour in cross section, usually circular.

In one wall of the body and near the lower end thereof, is a rectangular opening 2 constituting a fuel charging mouth, which is adapted to be closed, when desired, by a slid-

ing door 3 that is mounted between guides 4 riveted or bolted to the body. The upper end of the door is provided with a hand hold 5 by which it may be operated to open and close the same.

Arranged within the upper portion of the body and preferably flush with its upper edge, is a utensil support 6 that is constructed of a band of metal of any desired width and thickness, and that is held assembled with the body by bolts 7 and nuts 8, these latter elements serving also to hold legs 9 combined with the body which are by preference constructed of flat strap metal, or they may be cast or otherwise formed.

It will be noted with reference to Fig. 3 the utensil support 6 does not entirely encircle the interior of the body, but is sufficiently shorter than the circumference thereof to permit of an extended range of adjustment thus to adapt the furnace to support pots and kettles of different sizes. In order to stay the free ends of the utensil support, a brace bar 10 is employed, which is disposed flush with the upper edge of the body, and secured by the bolts 7 and nuts 8. The utensil support is provided with a series of orifices 11 for the purpose of permitting the adjustment referred to, one adjustment being indicated in Fig. 3, by which it will be seen that in order to change the diameter of the support it will only be necessary to remove the bolts at the intermediate portions thereof and at the free ends, then flex the support inward, as shown, and then replace the bolts.

As is usual with furnaces of this character the fire is built directly on the ground and the body placed over it, the smoke escaping through an opening 11 opposite the door and with which a pipe may be assembled if desired.

It will be seen from the foregoing description that by means of the novel form of utensil support the furnace will be exceedingly useful, inasmuch as it may be adapted for use in positions where ordinary furnaces of this character could not be employed.

What is claimed is:—

1. A furnace comprising a body, a circumferentially adjustable internally arranged utensil support at the upper end, an externally disposed brace bar, and bolts passing through the body, support and brace bar for holding the parts assembled and in adjusted positions.

2. A furnace comprising a body, an inter-

nally arranged utensil support at the upper end thereof and provided adjacent to its terminals with a plurality of orifices, an externally disposed brace bar, and bolts passing through the body, support and brace bar for holding the parts assembled and the utensil support in adjusted position.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

ANDY F. MILLER.

Witnesses:

W. T. LINDSEY,
C. L. PARRISH.