

F. M. CARNES.

Domestic Boiler.

No. 100,853.

Patented March 15, 1870.

FIG. 1

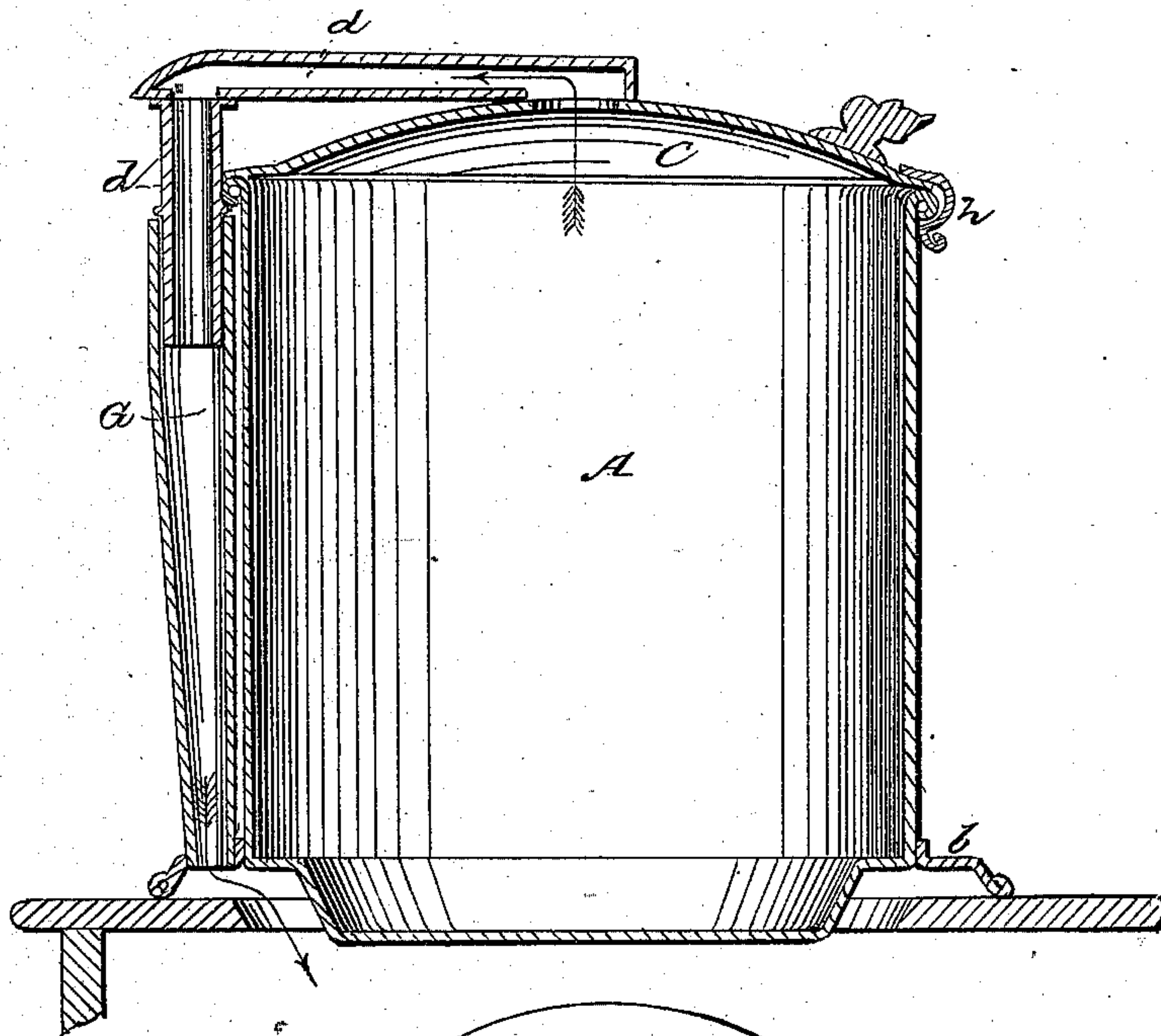
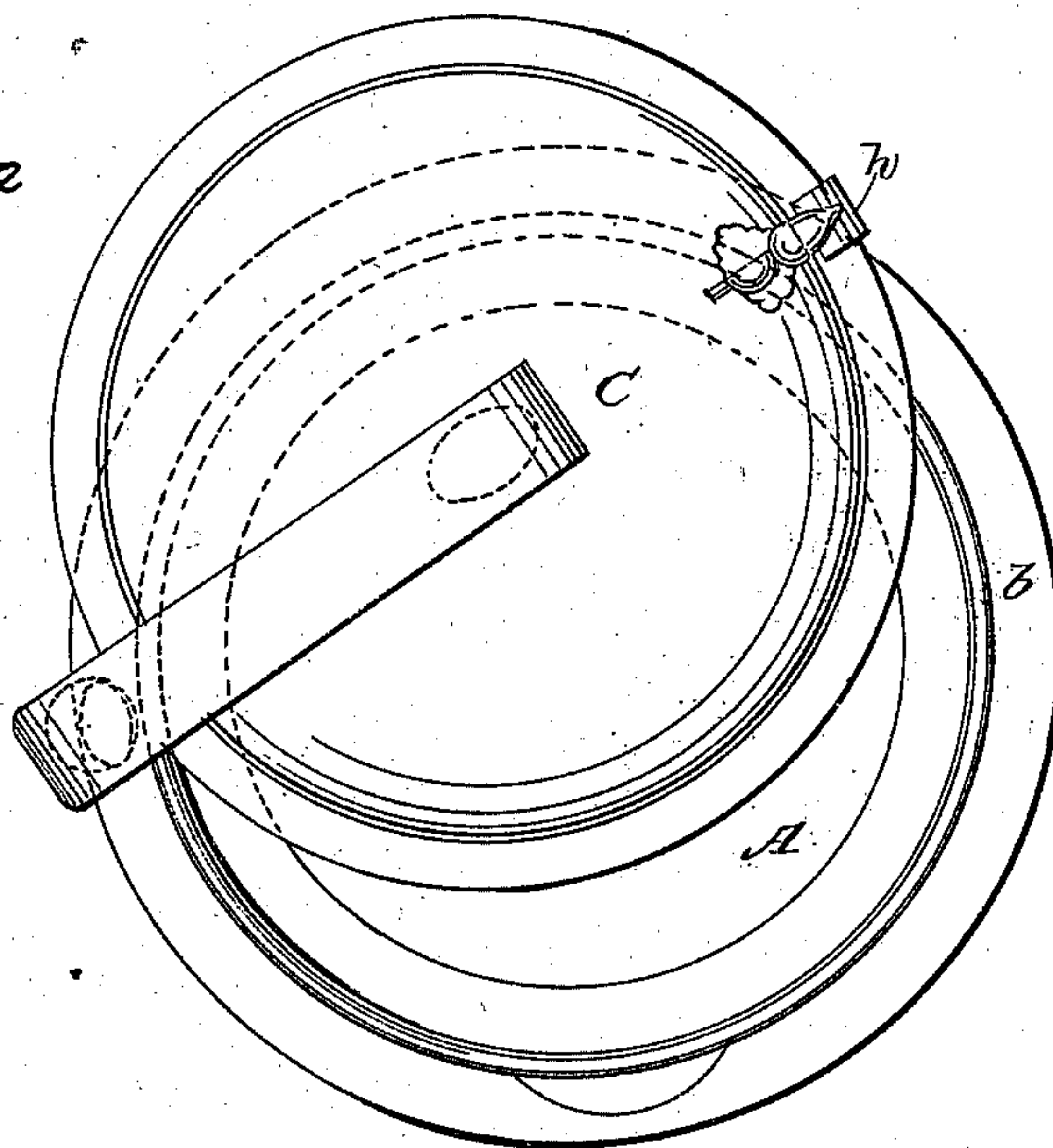


FIG. 2



WITNESSES:

*Villette Anderson.*

*Chas. T. Lyon.*

INVENTOR:

*F. M. Carnes*  
*Chipman, Hosmer & Co*  
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# United States Patent Office.

FERDINAND M. CARNES, OF ROCHESTER, NEW YORK, ASSIGNOR OF ONE-HALF INTEREST TO GILES CARTER AND SMITH CARPENTER, OF SAME PLACE.

*Letters Patent No. 100,853, dated March 15, 1870.*

## CULINARY BOILER.

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, FERDINAND M. CARNES, of Rochester, in the county of Monroe and State of New York, have invented a new and valuable Improvement in Boilers; 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 drawings making a part of this specification and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a central vertical section of my invention.

Figure 2 is a top view of the same.

My invention relates to means for preventing the escape of the steam from kettles, boilers, &c., into the room, and consists in the construction and novel arrangement of devices, whereby the steam is conducted into the fire below the kettle and consumed.

The letter A of the drawings designates my kettle, provided at its base with a flanch, *b*, bent outward and downward in such a manner that the kettle will be supported upon it, and will not close the pot-hole of the stove.

C designates the cover of my kettle, from the top of which proceeds the bent pipe *d*, whose end is inserted into the pipe G, forming a tight joint, upon which the cover is arranged to swing from side to side.

*h* represents a small clamp, by which the cover is fastened to the kettle when exactly over the mouth thereof.

The pipe G extends down on the outside of the kettle, and is attached to the flanch *b*, thereby affording communication with the fire below.

While the movement and use of the cover is not in the least impeded, the steam generated within, when the cover is closed, will pass freely through the pipes down into the fire. The kettle is as useful and convenient as though the pipe were not attached thereto, while it possesses the great advantage of never emitting the steam into the room.

Sometimes I prefer to curve the pipe *d* in the form of a bow, thereby presenting no angular obstruction to the passage of the steam.

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

The boiler herein described, provided with a supporting-flanch, *b*, around its base, external descending pipe G, and cover C, having bent pipe *d*, connecting with the pipe G, and forming therewith a steam-tight pivot-joint, when constructed and arranged to operate substantially as specified.

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

FERDINAND M. CARNES.

Witnesses:

W. R. CARPENTER,  
M. P. EWING.