

(Model.)

W. V. BURGESS.
Washing Machine.

No. 237,956.

Patented Feb. 22, 1881.

Fig. 1

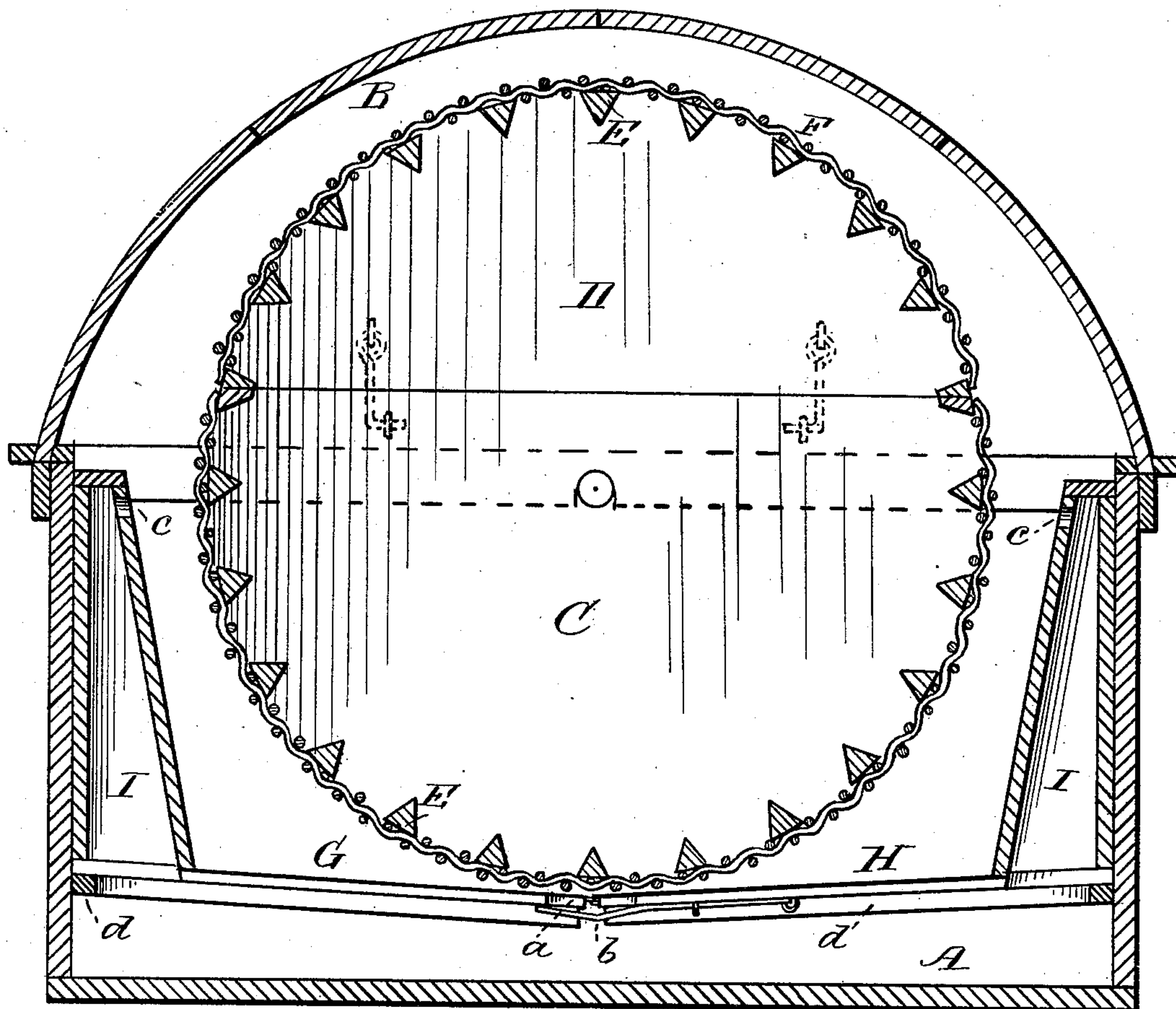
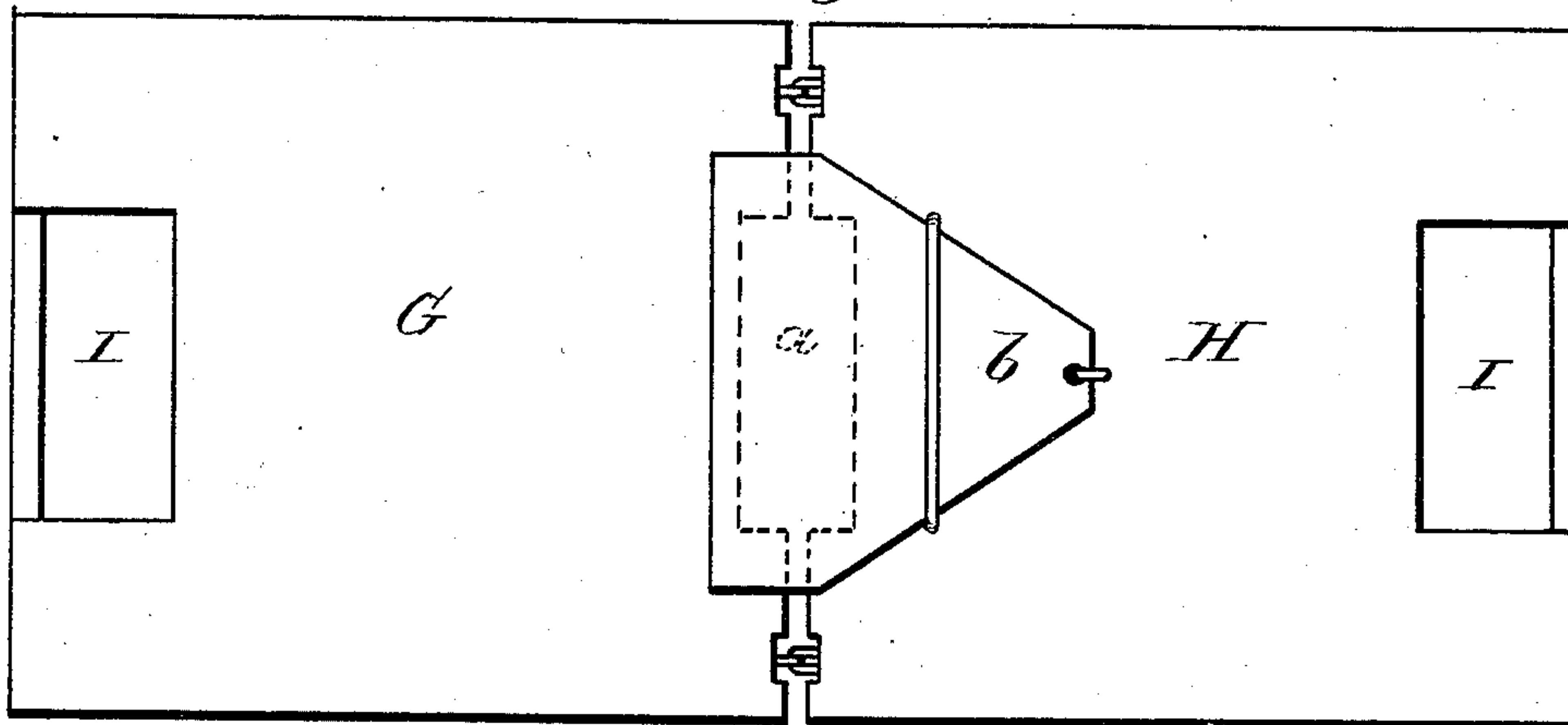


Fig. 2.



WITNESSES

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WILLIAM V. BURGESS, OF JACKSON TOWNSHIP, ANDERSON COUNTY, KANS.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 237,956, dated February 22, 1881.

Application filed December 8, 1880. (Model.)

To all whom it may concern :

Be it known that I, WILLIAM V. BURGESS, a citizen of the United States, residing at Jackson township, in the county of Anderson and State of Kansas, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description 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 is a longitudinal vertical section of my invention, and Fig. 2 an under-side plan view of the false bottom.

The present invention has relation to certain new and useful improvements in that class of washing-machines consisting of a boiler containing a false bottom having vertical tubes or pipes, through which the boiling water ascends and is projected through perforations at the top of the pipes or tubes in jets or small streams against and upon the clothes in a revolving cylinder.

The invention consists in the construction of the several parts of the washing-machine, as illustrated in the drawings and hereinafter described, whereby the clothes are caused to be constantly changed in the revolving cylinder and the dirt loosened and rinsed out in an effective manner.

In the accompanying drawings, A represents the wash-boiler, of any suitable size and shape, and composed of any desirable metal, said boiler having an arched cover, B.

A cylinder, C, is journaled to the sides of the boiler A, and is provided with a suitable crank-handle for turning it, and has also a hinged cover, D, held closed by catches or other desirable fastenings.

To the ends of the cylinder C are secured bars E, consisting of longitudinal strips of wood or metal, running parallel to each other the entire length of the cylinder.

The cylinder C has a covering of wire cloth or netting to confine the clothes within said cylinder while it is revolving and admit the free circulation of the water.

The false bottom consists of two sections, G H, hinged together at their inner edges, and cut away so as to form, when together, an

opening, *a*, covered upon its under side by a valve, *b*, the outer ends of each section G H having upright fountain-tubes I, the water passing out through perforations *c* at the upper ends thereof. The sections of the false bottom rest upon flanges or strips *d*, secured to the sides and ends of the interior of the boiler A, those upon the sides being inclined in a downward direction from the ends toward the center of the boiler, so that the hinged portion of the sections will be the lowest.

The depression at that point where the two sections of the hinged bottom are connected forms a space for the water, which is of sufficient depth to be agitated and thrown against the clothes by the bars E coming in contact therewith in rapid succession as the cylinder is being revolved.

In operation the clothes to be washed are placed in the cylinder C, and the required quantity of soap and water is placed in the boiler A. When the water boils it ascends through the tubes I and escapes through the perforations *c* in small jets or streams against the clothes in the cylinder as it is being revolved. As the clothes are thus being acted upon by the jets or streams of water the clothes, by the rotation of the cylinder, are continually changing their position, which change is assisted by the bars E. While this is going on and as the cylinder C is revolving each bar in its turn, as it passes over the lowest portion of the false bottom, containing the greatest depth of water, agitates it and throws it against the clothes, which, together with the steam and jets of water, expands the clothes, loosens the dirt, and also rinses it out without any material wear to them.

The false bottom, composed of the sections G H, may be fastened to the sides or ends of the boiler A to prevent the steam and water from forcing them up off their flanges on supports *d*, but admitting of the sections being readily removed, when desired, for cleaning them and the interior of the boiler.

The valve *b*, which is hinged to the under side of the section H, comes directly under the opening *a*, and prevents the water from passing upward through the opening, but admits of the water passing in a downward direction through said opening.

Having now fully described my invention,
what I claim as new, and desire to secure by
Letters Patent, is—

The combination, with the revolving cylinder D, of the boiler A, having removable false bottom, consisting of the two sections G H, hinged together, and provided with fountain-tubes I and valve b, substantially as and for the purpose specified.

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

WILLIAM VOSSO BURGESS.

Witnesses:

B. F. PATTEE,

F. H. PATTON.