

Thomas F. Shaw & John Brinkman Washing Machine

No. 121,672.

Fig 1.

Patented Dec. 5, 1871.

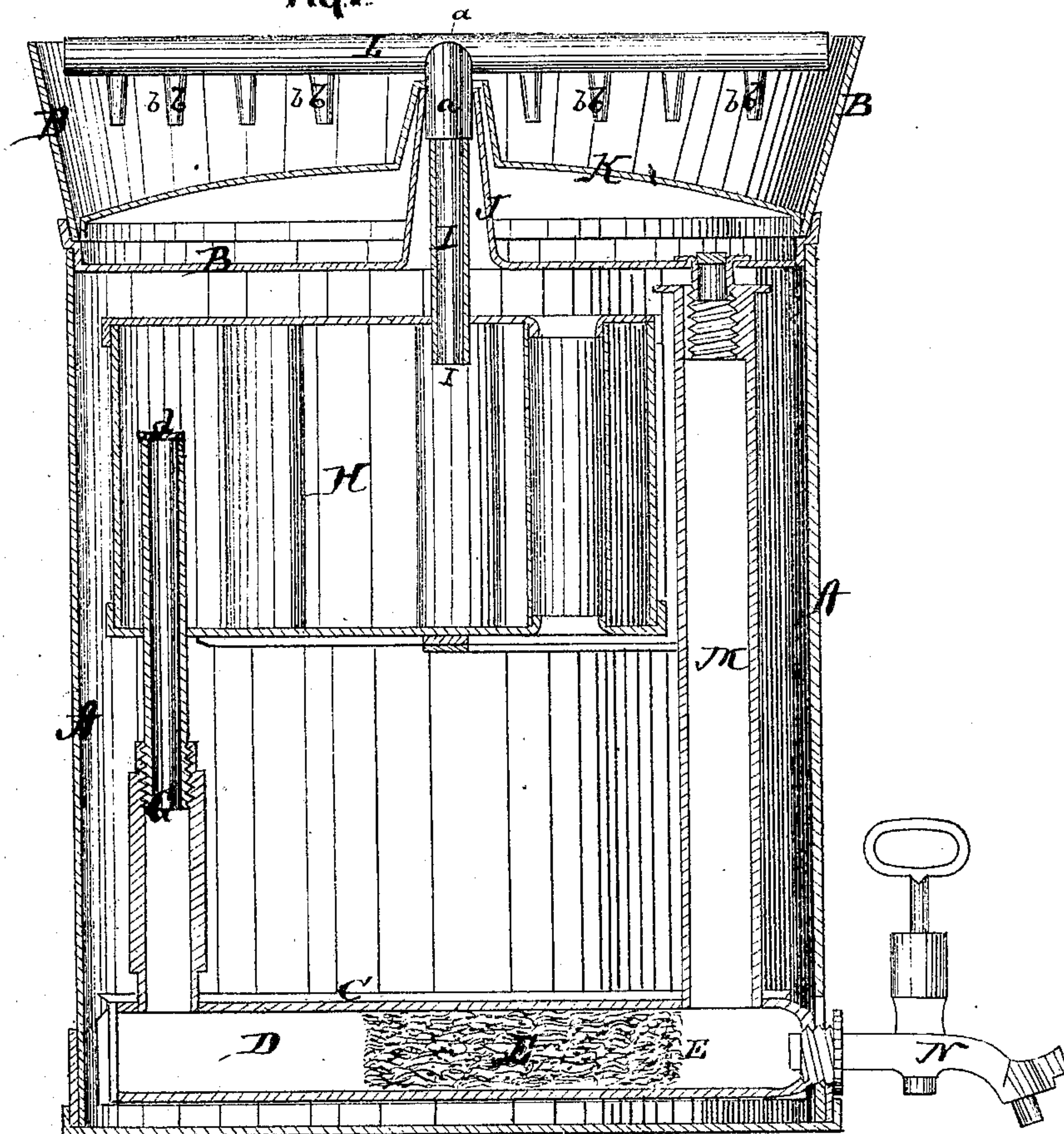
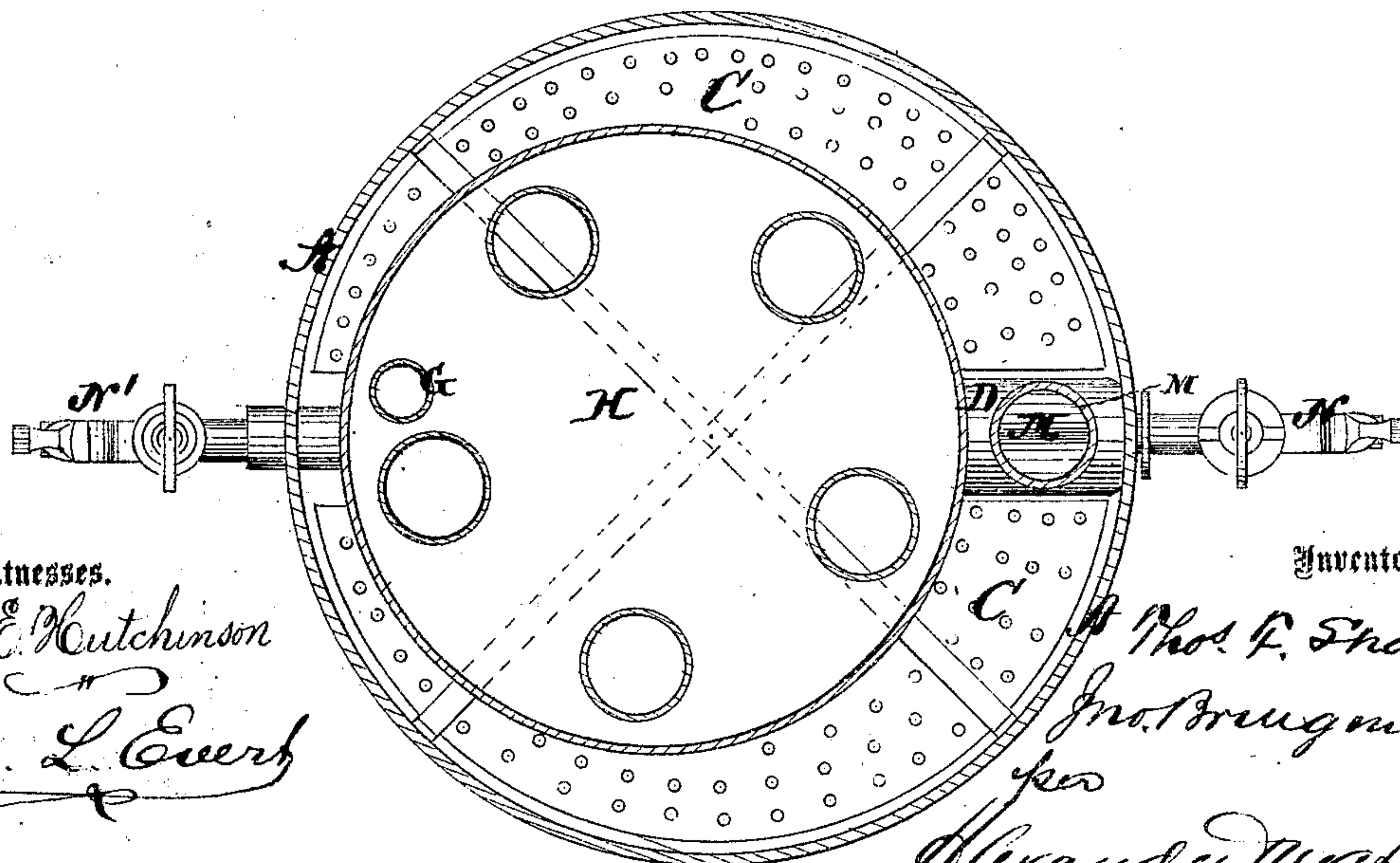


Fig 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

THOMAS F. SHAW AND JOHN BRINGMAN, OF TIFFIN, OHIO.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 121,672, dated December 5, 1871.

To all whom it may concern:

Be it known that we, THOMAS F. SHAW and JOHN BRINGMAN, of Tiffin, in the county of Seneca and State of Ohio, have invented certain new and useful Improvements in Washing-Machines; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon, making a part of this specification.

The nature of our invention consists in the construction and arrangement of a washing-machine, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a longitudinal vertical section, and Fig. 2 is a horizontal section of our washing-machine.

A represents a furnace of any suitable size and form, on the top of which the vessel B is placed, or, rather, the vessel B forms the top of said furnace. C is a grate of the furnace, made in two parts, below which is located a pipe or reservoir, D, filled with sponge E or other suitable filtering material for a purpose that will be hereinafter described. From one end of the pipe or reservoir D a pipe, G, extends about half way up into a steam-generator, H, placed within the upper part of the furnace under the vessel B. This generator or boiler is of the kind known as a tubular boiler, and is provided with a tube, I, passing up through a conical tube, J, formed in the bottom of the vessel B. A convex false-bottom, K, is placed in this vessel, said false bottom being provided in its center with a tubular projection fitting around the tube J. L represents a horizontal pipe provided with a branch, *a*, in the center, which branch passes within the tube J, and is placed upon the upper end of the tube I. The horizontal pipe L is, on both sides of the center, provided with a series of spouts, *b b*, the two series being inclined in opposite directions. From the bottom of the vessel *b* a pipe, M, leads downward, communicating with the end of the pipe or reservoir D, the pipe G being at the other end of the same, and the filtering material E between the two pipes G and M. At the end of the reservoir D where the pipe M enters is a faucet, N, and from the steam-generator H another faucet, N', leads through the side of the furnace. In the

pipe G is a valve, *d*, as shown. The clothes to be washed are laid upon the false-bottom K, the generator H filled or partially filled with water, and a fire started in the furnace. As steam is generated the valve *d* prevents it from escaping through the pipe G, and it must pass up through the pipe I and horizontal pipe L and come out with great force through the spouts *b b* onto the clothes. The force of the steam with the opposite inclination of the spouts will cause the clothes to revolve, thus bringing the steam to bear upon all the clothes equally. And not only the steam but the boiling water will thus be thrown with great force onto the clothes, cleansing the same. The water, after passing through the clothes, goes down through the pipe M into the reservoir D, where, passing through the filtering material E, it becomes filtered and comparatively clean before it returns to the generator H through the pipe G. By means of the faucets N N' the water is drawn off at any time when desired.

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

1. In a washing-machine constructed substantially as herein described, and where the water is passed and repassed through the clothes, sponge or other suitable filtering material, arranged so that the water must pass through the same each time after going through the clothes, for the purposes set forth.

2. The pipe or reservoir D inclosing sponge or other suitable filtering material and connected by pipes G and M with the steam-generator H and vessel B, respectively, substantially as and for the purposes herein set forth.

3. The valve *d* situated in the pipe G within the steam-generator H, substantially as and for the purposes herein set forth.

4. The combination of the furnace A, vessel B, reservoir D with filtering material E, pipes G, M, steam-generator H, pipes I J, false-bottom K, and horizontal pipe L with spouts *b b*, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that we claim the foregoing we have hereunto set our hands this 17th day of May, 1871.

THOMAS F. SHAW.
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Witnesses:

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