

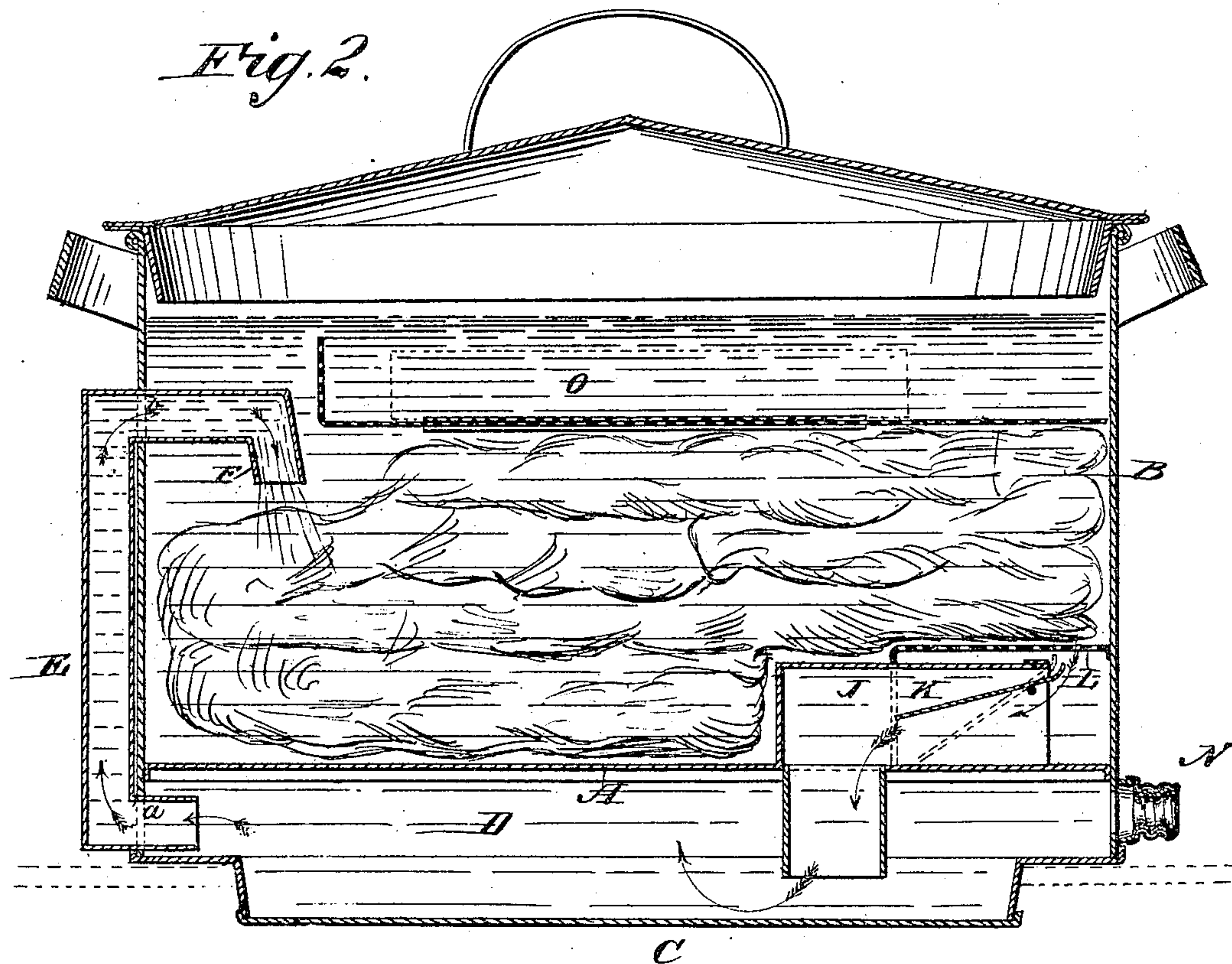
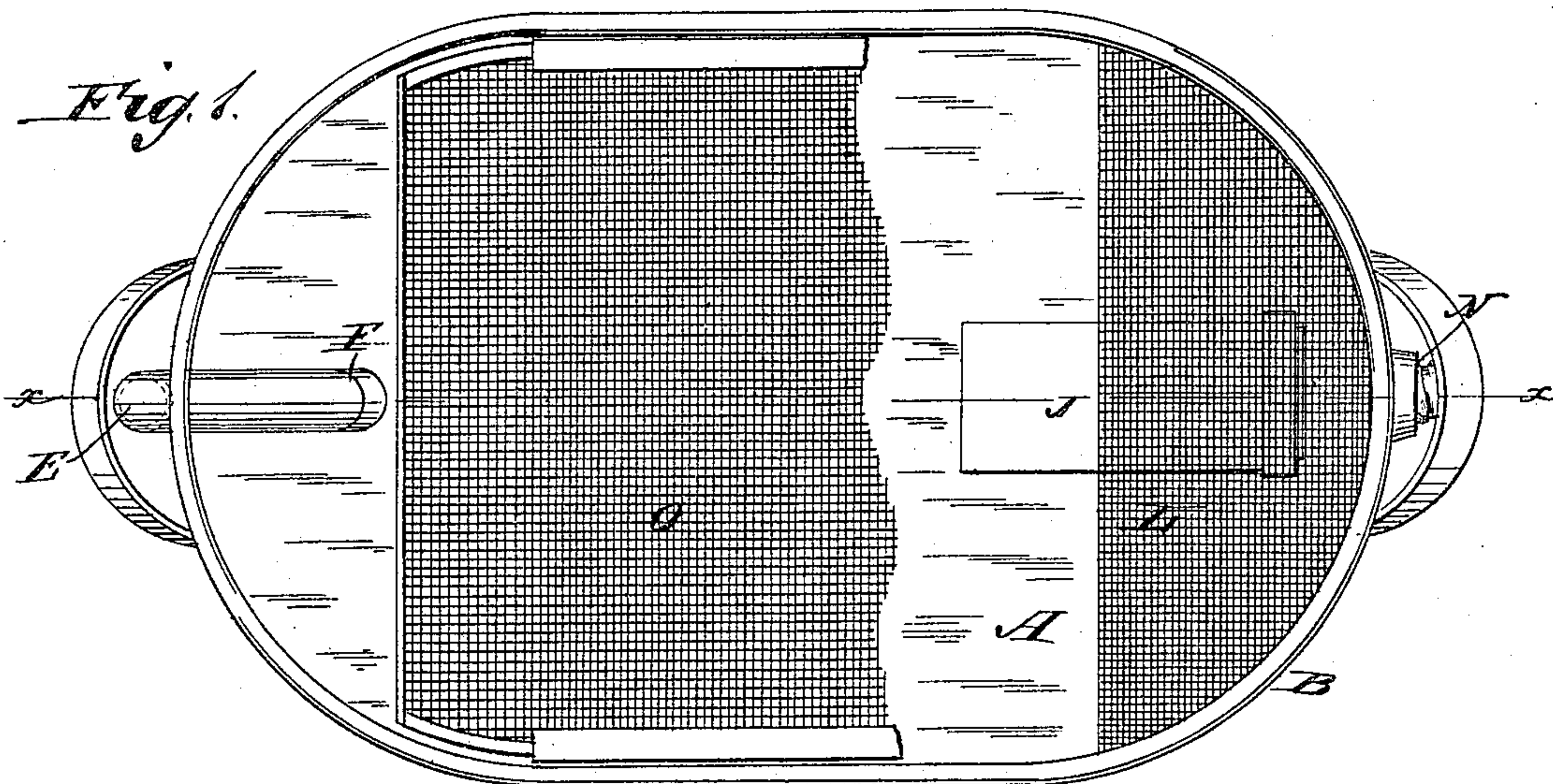
(Model.)

A. E. CARSON.

AUTOMATIC STEAM WASHER.

No. 248,706.

Patented Oct. 25, 1881.



WITNESSES:

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AUGUSTUS E. CARSON, OF LIVINGSTON, IOWA.

AUTOMATIC STEAM-WASHER.

SPECIFICATION forming part of Letters Patent No. 248,706, dated October 25, 1881.

Application filed May 19, 1881. (Model.)

To all whom it may concern:

Be it known that I, AUGUSTUS E. CARSON, of Livingston, Appanoose county, Iowa, have invented a new and Improved Automatic Steam-Washer, of which the following is a specification.

My invention relates to improvements in wash-boilers; and it consists in the peculiar construction and arrangement of the parts, as hereinafter more fully set forth, and pointed out in the claim.

In the accompanying drawings, Figure 1 is a plan view of my improved steam-washer. Fig. 2 is a longitudinal sectional elevation of the same on the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

A plate, A, or horizontal partition, of the same size as the cross-section of the wash-boiler B, is rigidly fastened to the sides of this wash-boiler a short distance above the bottom C, thus forming a steam-generating compartment, D. A tube, E, extends from the steam-generating compartment upward on the outside of the boiler and enters the same near the top, the upper end, F, of this tube E being bent downward, so as to deliver the steam or water downward upon the clothes. A hole, *a*, is made in the steam-generating compartment D of the boiler, for the passage of the lower end of the pipe E into said compartment, and a similar hole, *b*, is made in the boiler B vertically above the hole *a*, for the passage of the upper end of the pipe E into the boiler. By this construction the steam-compartment is independent of the clothes-compartment, and the vertical part of the pipe E lies entirely outside of the boiler, so that there greater space left for the clothes. A knee-pipe or angular pipe, J, extends from the top of the plate A into the steam-generating compartment D, and the upper end of this pipe is provided with an inwardly-swinging valve, K. A guard, L, or a perforated plate forms a covering for the upper end of the pipe J, to prevent the clothes

from passing into this pipe. The steam-generating compartment D is provided at one end with a nozzle closed by a screw-cap, N, for drawing off the water from the compartment D.

A perforated presser-plate, O, having one end bent upward to clear the inward-projecting part of the pipe E, is placed upon the clothes and is pressed down by some suitable weight.

The operation is as follows: The boiler A is filled with water up to about one inch from the top, part of this water passing into the steam-generating compartment D through the pipe J. The boiler is then placed upon the stove, and in about twenty to twenty-five minutes water will be discharged from the pipe E with a sudden gush, which is repeated several times, until the water is all of the same temperature, when the water flows from the tube E in a continuous stream, circulating in the boiler, as indicated by the arrows. The water is prevented from circulating in the inverse direction by the valve K. The clothes are then placed in the boiler, and are held down by a suitable weight on the presser-plate O.

I am aware that the general principles of my invention are not new, broadly, as shown in Letters Patent Nos. 131,638, 128,097, and 106,623, which I hereby disclaim.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination, with the boiler B, provided with the holes *a b*, and partition A, rigidly attached to the sides of the boiler and dividing it into two compartments, of the tube E, lying outside the boiler and connecting its compartments, knee-pipe J, provided with valve K, perforated guard L, and perforated presser-plate O, substantially as described, and for the purpose set forth.

AUGUSTUS E. CARSON.

Witnesses:

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