No. 661,431. Patented Nov. 6, 1900.

H. H. TUTTLE.

WASHBOILER.

(Application filed Feb. 8, 1900.)

(No Model.)

Fig. 1.

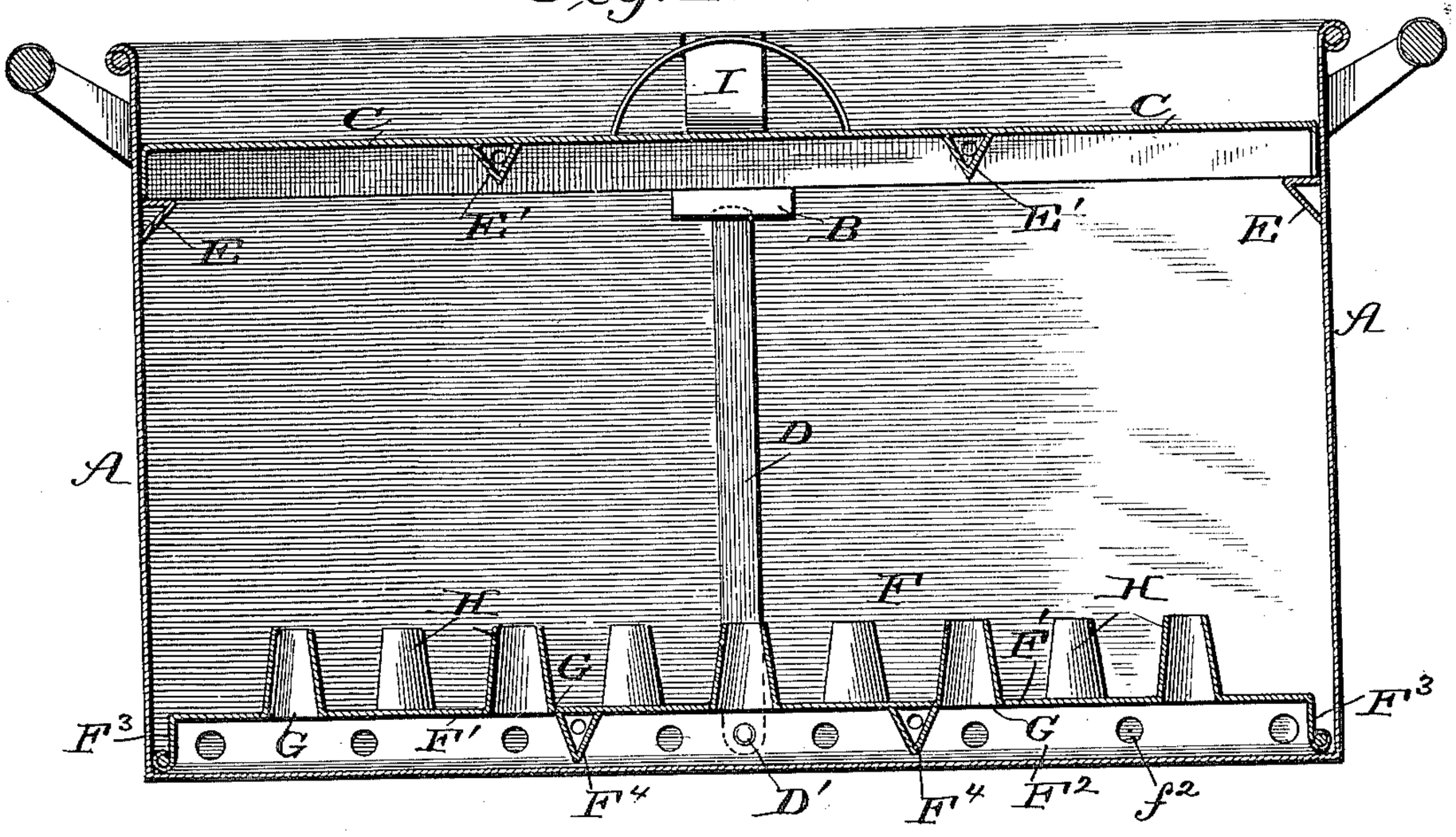
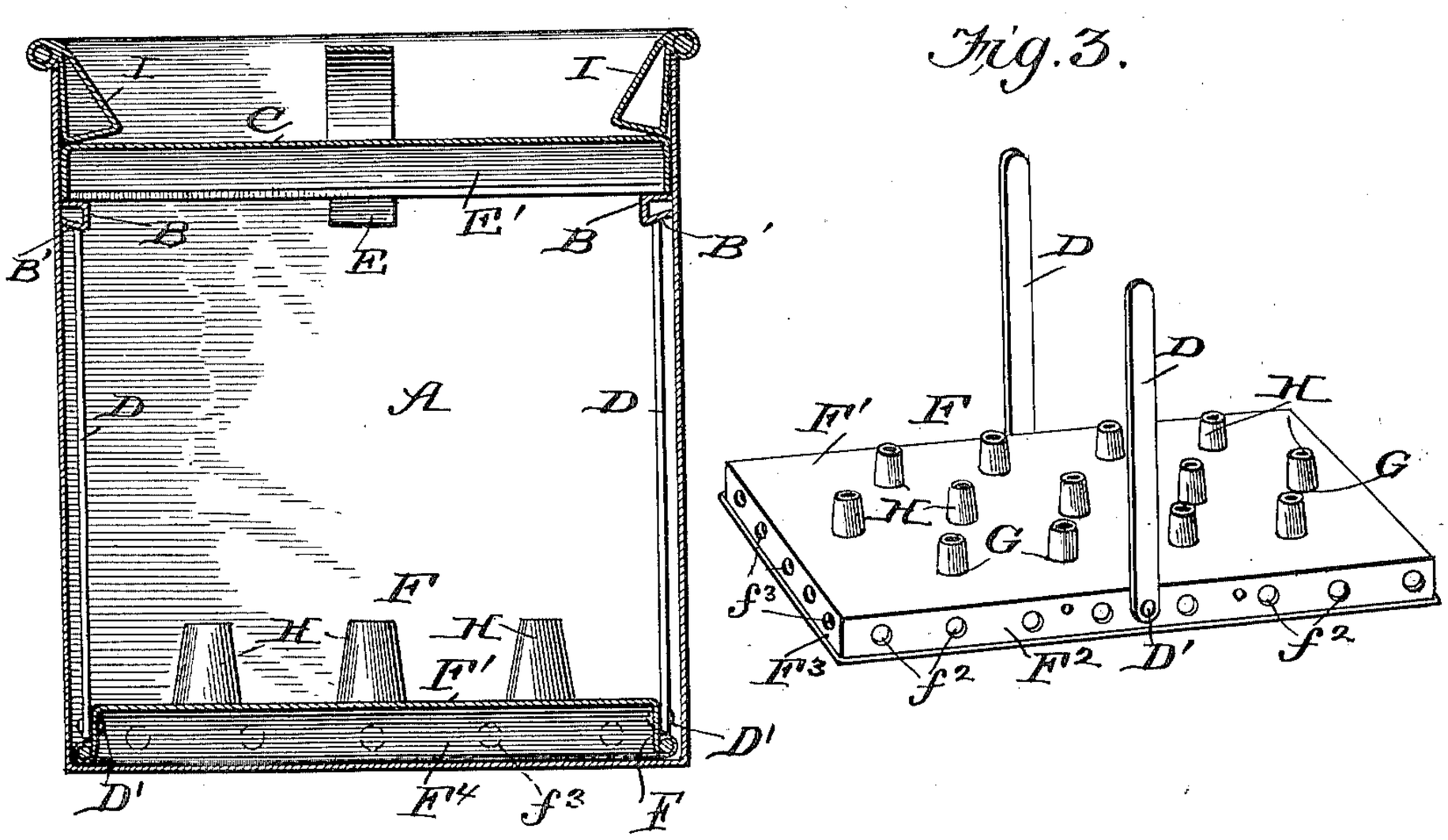


Fig. 2.

Fig. 3.



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WASHBOILER.

SPECIFICATION forming part of Letters Patent No. 661,431, dated November 6, 1900.

Application filed February 8, 1900. Serial No. 4,503. (No model.)

To all whom it may concern:

Be it known that I, HIRAM H. TUTTLE, residing at York, in the county of York and State of Pennsylvania, have invented a new and useful Improvement in Washboilers, of which the following is a specification.

My invention is an improvement in washboilers, and particularly in that class of such machines having tanks or boilers and means whereby the hot water and steam are caused to circulate through the clothing to be washed by the action of the heat; and the invention consists in certain novel constructions and combinations of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is a vertical longitudinal section, and Fig. 2 a vertical cross-section, of a machine embodying my invention. Fig. 3 is a detail perspective view of the false bottom or steaming attachment.

The tank A may be of any suitable material and size and is provided on the inner faces of its sides about midway between its ends with inwardly-projecting cleats B, whose upper edges form stops for the lid C and whose under edges B′ form abutments or seats for the upper ends of the side bars D of the steaming false bottom. The edges B′ of the cleats are preferably undercut, as shown, to better secure and form a guard for the upper ends of the bars D. By preference the bars D are pivoted at the steaming false bottom at D′, so the upper ends of the arms can be swung in the direction of length of the tank in adjusting the steaming false bottom into and out of the tank and setting the side bars D into and out of engagement below the cleats.

The lid C rests upon the cleats B at the sides of the tank and also upon stops E at the ends of the tank. The lid has a suitable handle and depending side and end flanges and is provided on its under side with cross-cleats E′, which brace and strengthen the top plate.

The steaming false bottom F is formed with the top plate F′, the depending side flanges F^2, and the depending end flanges F^3, and the false bottom is divided below the top plate by the transverse bracing-cleats F^4, secured to the under side of the top F′ and operating to give the desired rigidity to the false bottom and also to divide the chamber formed below the top plate F′ and within the flanges F^2 and F^3 into a series of compartments, so the tendency of the machine will be to force the hot water and steam up through all the tubes presently described instead of centralizing the upward current at any point or points upon the bottom. The side flanges F^2 and the end flanges F^3 are provided, respectively, with openings f^2 and f^3, through which the water circulates into the chamber below the top F′ of the steaming false bottom. This top F′ of the bottom is provided with a series of openings G, above which are provided the upwardly-projecting discharge-tubes H, which are preferably tapered toward their upward discharge ends, as shown.

In the operation of my boiler the false bottom is applied to the tank, as shown in Figs. 1 and 2, the clothing to be washed placed upon the said bottom, water suitably supplied, and the top or lid inserted and fastened by the latches I, which may be of the special form shown and operate to hold the lid firmly to its place.

It is manifest that when heat is applied to the tank the water therein will be caused to boil, and a circulation will be established downward along the sides and ends of the tank through the openings f^2 and f^3, thence up through the openings G, and up and out of the tubes H. I thus force the water up through lines of tubes from the bottom with a direct force and discharge it by such direct force below the clothing to be washed. This operates to open up the clothing and to force the water through it, and the water will spread out above the clothing and beneath the lid or cover and pass down along the sides and ends of the tank, thus completing the circulation.

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

1. A washboiler substantially as herein described, comprising the tank provided on its inner side with inwardly-projecting cleats having their under sides undercut, the steaming false bottom provided with a perforated top plate having upwardly-projecting discharge-tubes, and depending rim-flanges having perforations communicating with the chamber below the top plate, cross-cleats on

the under side of the top plate of the bottom forming the chamber into compartments, and side bars pivoted at their lower ends to the false bottom alongside the latter and having their upper ends arranged to engage below the undercut cleats, the lid or cover and means for fastening said lid or cover in place.

2. A washboiler comprising the tank provided on its inner side with inwardly-projecting cleats undercut on their under sides, the steaming false bottom and the side bars pivoted at their lower ends to the false bottom whereby their upper ends may be moved into and out of engagement with the undercut sides of the cleats of the tank, substantially as set forth.

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