S. J. WALLACE.

Wash Boiler.

No. 88,243. Patented March 23, 1869.

FIG. 3.

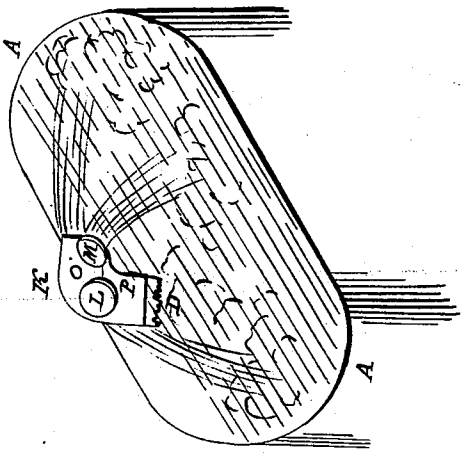


FIG. 2.

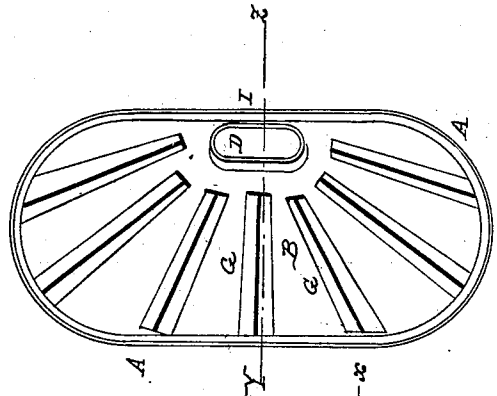
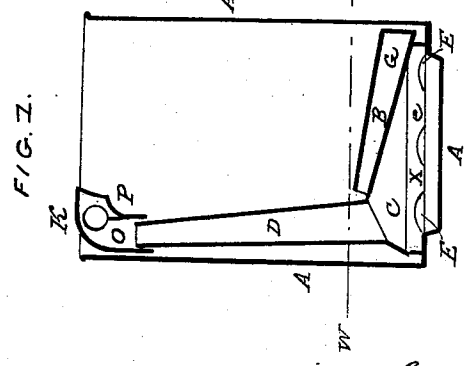


FIG. 1.



WITNESSES:

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SAMUEL JACOB WALLACE, OF KEOKUK, IOWA.

Letters Patent No. 88,243, *dated March* 23, 1869.

WASH-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, SAMUEL JACOB WALLACE, of the city of Keokuk, county of Lee, and State of Iowa, have invented a new and useful Improvement in Steam, or "Automatic" Washers; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, in which—

Figure 1 is a vertical section of my apparatus as ready for use.

Figure 2 is a horizontal section of same, on line W–X, and plan.

Figure 3 is a perspective view of the end of the tubes in the same.

This invention is of the general nature of one applied for patent on by me last year, (1868,) consisting of an apparatus, which is made as shown in the drawings, and set forth herein, for placing in a wash-boiler to throw the boiling suds on to the masses being washed, so as to dissolve all the soluble matter, so that a thorough sudsing will render them clean.

I am aware several inventions have been made previously, in which some general principles have been used, similar to those used by me, in some respects.

A represents the relation of the boiler.

B is the part of my apparatus forming the arched roof of the steam-chamber C, over the fire within the boiler A.

D is an upright tube, from steam-chamber C, for the boiling suds to pass up through, to be thrown on to the mass being washed, resting over the part B in the boiler.

This part D is at any suitable place around the side of the boiler, say opposite the middle part, for several advantages, and it is made more or less oval, as shown, to the economy of convenient space for clothing, and is of a form tapering upward.

From this tube the part B descends, as by expanding conical form, to the sides of the boiler, forming the arch-shaped roof of steam-chamber, in which the boiling suds will pass directly up to the tube D, and upon the top of which the descending suds will run down to the sides, to the passages E E E, which are cut, or scalloped out of the lower edge of the rim F, by which it will enter the steam-chamber C, over the fire.

On this part B are placed raised ribs, G G G, radiating down from the tube D to the sides of the boiler, to hold up the clothing from the surface of B, so that the suds may readily pass through the entire mass uniformly, and run off.

B has no perforations, normally, by which boiling suds might tend to escape from chamber C, to the weakening of the stream through the tube, and to the checking or diversion of the descending stream through the clothing.

The part B is made of one piece, cut at one side, at I, and bent into a conical form from the tube-hole D.

At the top of tube D is a peculiar pressed or formed head, K, which forms a discharge with, say, three streams, to reach the different parts of the boiler, from points L M N.

This consists of sheet-metal top and bottom parts O P. These are joined and then fixed on the top of tube D, or their lower parts may form this tube.

Two or more of these apparatus, as above set forth, may, if desired, be placed into one boiler, either separately, or by any suitable connection of the parts B; but for ordinary use, one is designed to serve the purpose.

I claim the steam, or automatic-washer, made substantially as described, with a cone-shaped and imperforated roof-part, B, radiating ribs G G, or clothes-rack, tube D, from top of arch of roof B, and, at one side, provided with head K and scalloped part E, for the purpose set forth.

SAMUEL JACOB WALLACE.

Witnesses:

W. F. BOWMAN,

JOHN A. WALLACE.