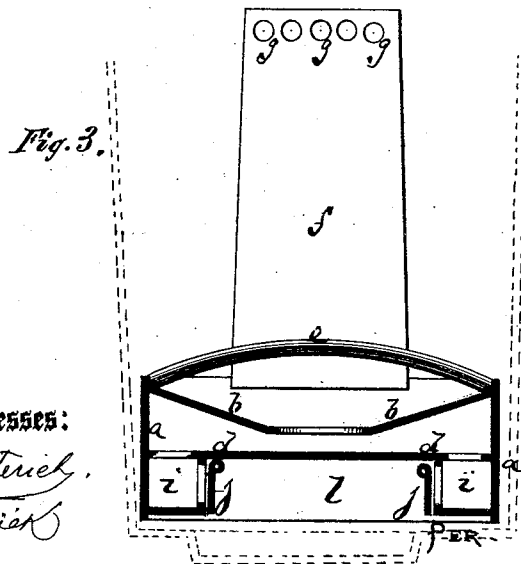
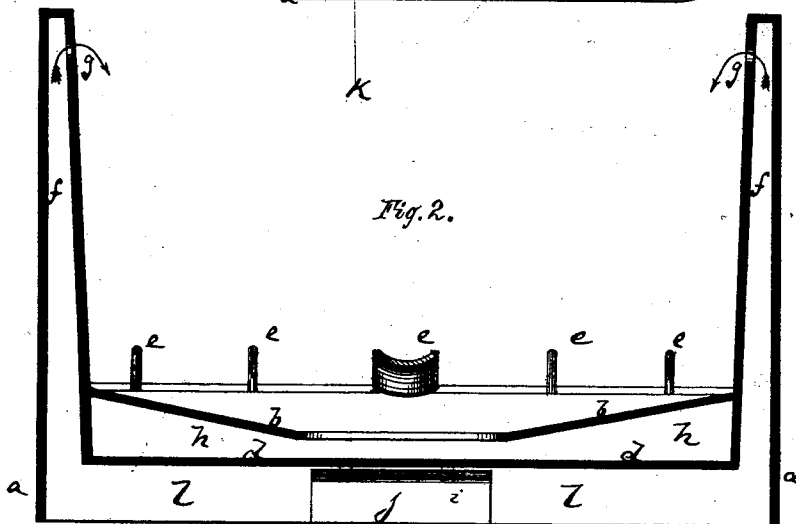
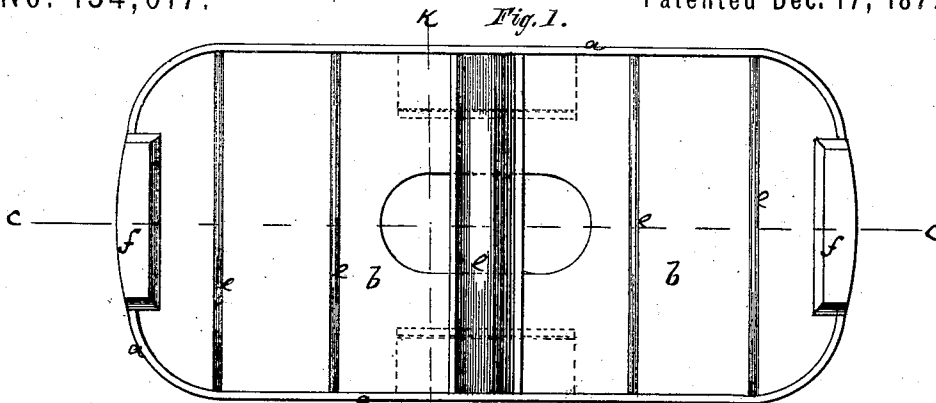


W. TINNER & J. C. TREGEAR.

Wash-Boiler Attachment.

No. 134,017.

Patented Dec. 17, 1872.



Witnesses:
P. C. Dietrich,
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UNITED STATES PATENT OFFICE.

WILLIAM TINNER AND JOHN C. TREGGAR, OF STOCKTON, PENNSYLVANIA.

IMPROVEMENT IN WASH-BOILER ATTACHMENTS.

Specification forming part of Letters Patent No. 134,017, dated December 17, 1872.

To all whom it may concern:

Be it known that we, WILLIAM TINNER and JOHN C. TREGGAR, of Stockton, in the county Luzerne and State of Pennsylvania, have invented a new and Improved Wash-Boiler Attachment, of which the following is a specification:

Figure 1 is a plan or top view of our improved wash-boiler attachment. Fig. 2 is a vertical horizontal section of the same taken on the plane of the line *c c*, Fig. 1. Fig. 3 is a vertical transverse section of the same taken on the plane of the line *k k*, Fig. 1.

Similar letters of reference indicate corresponding parts.

This invention relates to a wash-boiler attachment in which the clothes to be cleaned are exposed to streams of hot water that pass through the same in one direction and take away all impurities, and rapidly secure the desired effect.

The apparatus shown in drawing is a device to be placed within an ordinary wash-boiler for creating the desired currents of water through the goods. This inserted device consists of an oval rim, *a*, of such size as to fit the ordinary wash-boiler when placed within the same, as indicated in Fig. 3. This rim holds two bottoms, *b* and *d*, the lowermost of which, *d*, is about an inch or more above the bottom of the ordinary wash-boiler that contains the device. Above the upper bottom *b* is arranged a sort of rack, *e e*, upon which the clothes to be cleansed are placed. From the ends or sides, or either, of this device project vertical tubes or hollow pillars *f f*, which have apertures *g g* at their upper parts. The upper bottom *b* is funnel-shaped, and open in the middle, so that the water on top of it may flow down into the space *h* which is formed between the two bottoms *b d*. This space *h* communicates with two boxes, *i i*, that are arranged beneath the lower bottom *d*. Openings in the sides of these boxes *i i* are or may be

closed by means of valves *j j*, which are clearly shown in Fig. 3. These valves, it will appear, are at the sides of the space *l*, which is formed between the bottom of the containing boiler and the bottom *d* of the inserted boiler.

After the instrument herein described has been inserted within the ordinary boiler, the clothes placed upon the rack *e*, and the suds introduced and heat applied, the effect will be as follows: The water in the space *l*, becoming overheated to create steam, will, by its pressure of expansion, first close the valves *j j*. The steam will then ascend in the hollow pillars *f f* with the hot water and cause a constant stream of such heated water to be brought through the tubes *g g* upon the clothes on the rack. As quick as the pressure within the chamber *l* is diminished, the valves *j j* will be opened by the pressure or weight of the water from within the boxes *i i*. In this manner circulation will constantly be going on; but it will be seen that the water poured upon and through the clothes always passes in one direction, thus taking away all impurities.

Very large as well as very small quantities of clothes can thus be rapidly, effectually, and economically cleansed without becoming in the least injured or being unnecessarily handled.

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

The wash-boiler attachment, composed of the rim *a*, bottoms *b d*, valves *j j*, and hollow pillars *f*, all arranged with respect to each other, substantially in the manner herein shown and described.

WILLIAM TINNER.
JOHN C. TREGGAR.

Witnesses:

P. L. VINCENT,
EDWARD BURGESS.