W. M. ELIAS.

WASHING DEVICE.

APPLICATION FILED OCT. 7, 1911.

1,051,493. Patented Jan. 28, 1913.

Fig. 1.

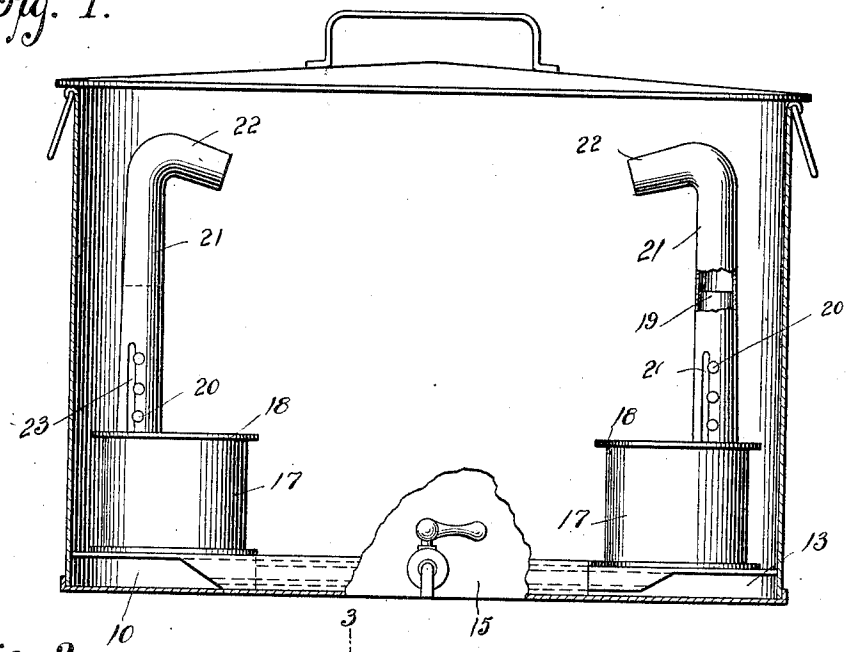
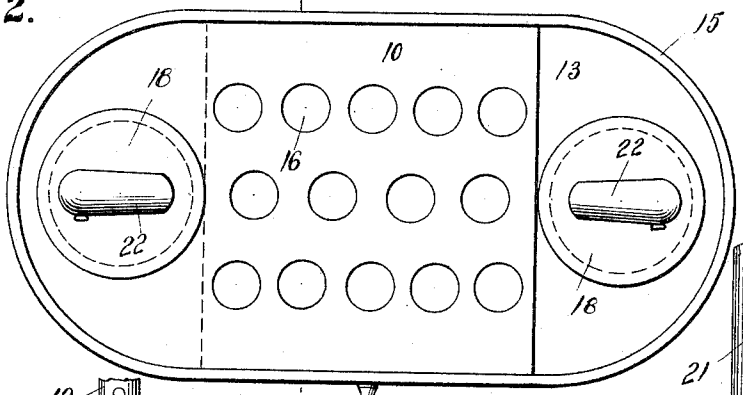


Fig. 2.



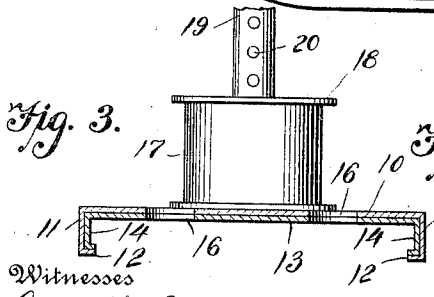


Fig. 3.

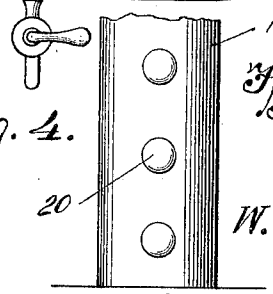


Fig. 4.

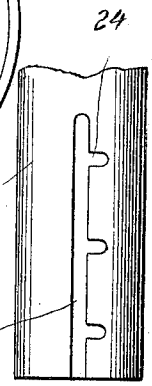


Fig. 5.

Witnesses

Carroll Bailey.

F. A. Horton

Inventor

W. M. Elias,

By Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

WILLIAM M. ELIAS, OF NEW YORK, N. Y.

WASHING DEVICE.

1,051,493. Specification of Letters Patent. Patented Jan. 28, 1913.

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To all whom it may concern:

Be it known that I, WILLIAM M. ELIAS, a citizen of the United States, residing at New York city, in the county of New York and State of New York, have invented new and useful Improvements in Washing Devices, of which the following is a specification.

An object of the invention is to provide a device for facilitating the washing of clothes and the like, by subjecting them to the cleansing action of hot water or steam.

My invention embodies more particularly a device, preferably adapted to be mounted within the usual wash boiler, the clothes to be washed being arranged within the boiler so that when the water contained in the boiler is heated to the boiling point, streams of water will be thrown onto the clothes and passed therethrough to clean the same, a complete circulation of the water being effected in the operation.

My invention further embodies a device having adjustable features, thus enabling the use of the device in connection with boilers of various sizes and dimensions, coincident with the amount of materials that are to be cleansed at one time.

Reference is to be had to the accompanying drawings constituting a part of this specification, in which similar characters of reference denote corresponding parts in all the views, and in which—

Figure 1 is a side elevation of a wash boiler, my device being mounted therein, parts of the said boiler and the device being broken away to disclose the underlying structure. Fig. 2 is a plan view of the wash boiler showing my device mounted therein, the cover of the boiler being removed. Fig. 3 is a fragmentary vertical transverse sectional view of my device, taken substantially on the line 3—3 in Fig. 2. Fig. 4 is a fragmentary elevation of a tubular member of one of the tanks, showing the adjusting pins thereon. Fig. 5 is a fragmentary elevation of one of the pipes, showing the bayonet slot therein.

Referring more particularly to the views, I provide a base 10, having integral depending flanges 11, constituting a track 12, as shown in Fig. 3 and a second smaller base 13 provided with integral depending flanges 14, slidably engaging the track 12 so that the smaller base 13 can be collapsed within the base 10, the mentioned bases 10 and 13 being preferably shaped like the base of a wash boiler 15 so that the said bases can be mounted to repose on the bottom of the wash boiler and adjusted to the particular size of the boiler as shown in Figs. 1 and 2. The bases 10 and 13 are provided with registering rows of apertures 16 and mounted on the outer end of each of the bases are similar tanks 17 provided with tops 18 and open at their bottoms, the bases 10 and 13 being provided with openings over which the tanks 17 are mounted, the said tanks being rigidly secured to the bases in any preferred manner.

As mentioned, the base 13 is collapsible within the base 10 and by referring to Fig. 2 it will be seen that the upper side of the base 10 partially incloses the upper side of the base 13, the sliding movement of the base 10 on the base 13 being limited by the tank 17, mounted on the base 13 so that when the base 13 is telescoped within the base 10, the outer end of the base 10 abutting against the mentioned tank 17 will not only limit the inward sliding movement of the base 10, but will prevent the outer end of the base 13 from overlapping the opening formed in the base 10 and over which the other tank 17 is mounted.

The tops 18 of the tanks 17 are provided with openings in which are secured tubular members 19, the said members being mounted to extend upwardly from the tops and provided on their exterior sides with laterally extending headed pins 20, the said pins being preferably arranged in vertical alinement on each member 19. A plurality of pipes 21, having their upper ends curved to form elbows 22, are mounted on the tanks 17 with the lower ends of the said pipes encircling the members 19 and slidable thereon. Each of the pipes 21 is provided with a vertical slot 23 from which are extended lateral slots 24, the mentioned slots 23 and 24 constituting the usual bayonet slot. By referring to Figs. 4 and 5 it will be seen that when one of the pipes 21 is mounted to encircle one of the tubular members 19 the pins 20 will be received in the slot 23 and when the pipe has been properly positioned on the tubular member, the said pipe is subjected to a slight turning movement so that the pins 20 will be received in the slots 24, thus retaining the pipe in locked position on the tubular member as shown in Fig. 1. In a similar manner, when it is desired to adjust

the height of the pipes 21 relatively to the boiler 15, the said pipes are turned slightly so that the pins 20 will be received in the vertical slots 23 thus unlocking the pipes from the tubular members and permitting the same to be slid upwardly a certain distance and again slightly turned to lock the pipes to the tubular members, it being understood that the pins 20 are equidistantly spaced apart and the slots 24 are arranged similarly so that any of the pins 20 can be received in any of the slots 24, it being further understood and shown in the drawings that the tubular members 19 are of sufficient height to prevent the disclosure of an opening in the pipes, regardless of the manner in which the pipes are adjustably mounted on the tubular members, the height of the said tubular members being greater than that of the ends of the slots 23 when the pipes 21 are mounted in their uppermost positions on the tubular members.

In the use of my device, a quantity of water is first poured into the boiler 15 and my device is then mounted in the boiler as shown in Fig. 1, the bases 10, 13 being relatively adjusted to cover the bottom of the boiler and the pipes 21 being mounted so that the open ends of the elbows 22 will point inwardly and toward each other. A sufficient quantity of soiled clothes are now arranged in the boiler 15, between the pipes 21 and the tanks 17, the said clothes being mounted to repose on the upper sides of the bases 10, 13. The water in the boiler 15 is now subjected to the action of heat and when the water reaches the boiling point, the hot water will flow outwardly from the upper ends of the pipes 21 and flowing onto the clothes, will pass through the same and impregnate the clothes, thus cleansing the various fabrics, it being understood that a sufficient quantity of water has been previously placed within the boiler to further the proper operation of my device, the height of the water in the boiler, after the clothes have been placed therein, being preferably just below the inner ends of the elbows 22.

From the foregoing description it will be seen that a complete circulation of water in the boiler, is effected and as long as heat is applied to the water to boil the same, continuous steady streams of boiling water will be exhausted from the upper ends of the pipes 21 and thoroughly impregnate the clothes.

With a device of the character described the tedious process of subjecting the clothes to the action of a rubbing board is dispensed with.

Various parts of the device can be disconnected for arrangement in a compact package, thus facilitating the transportation of the device.

I claim:—

In a washing device, the combination with a perforated base, of a track formed thereon, a second base, flanges formed on the said second base and slidable on the said track, tanks rigidly mounted on the said bases and retained in spaced relation by an edge of one of the bases abutting against the tank on the other base, and tubular members mounted to extend upwardly from the said tanks.

In testimony whereof I affix my signature in presence of two witnesses.

W. M. ELIAS.

Witnesses:
WM. BRODHAG, Jr.,
T. W. JOHNSTONE.