

C. SCHULTZ & S. SCHEER.
 WASHING DEVICE.
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1,042,978.

Patented Oct. 29, 1912.

Fig. 1.

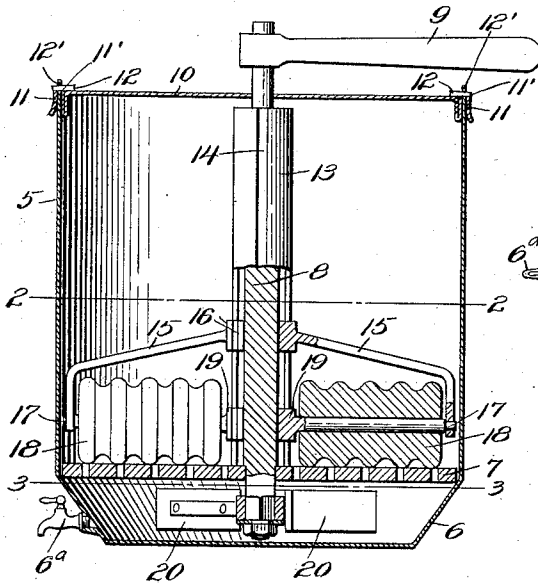


Fig. 2.

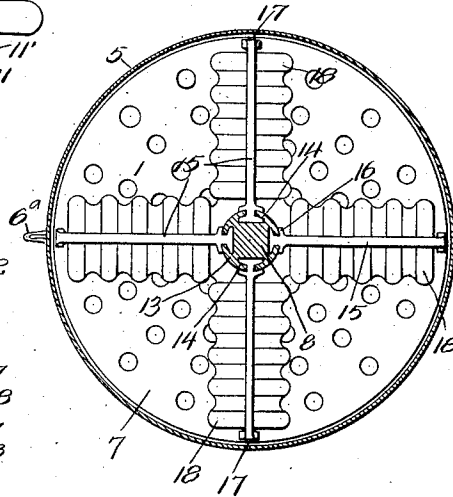


Fig. 4.

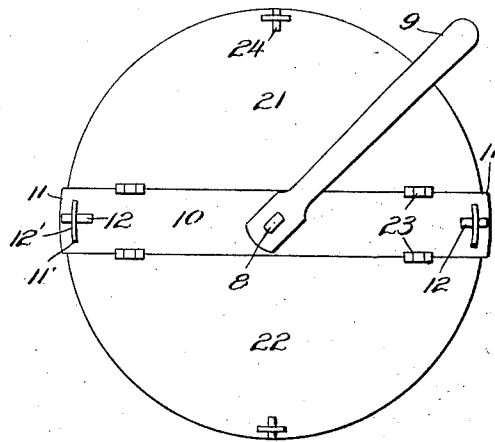
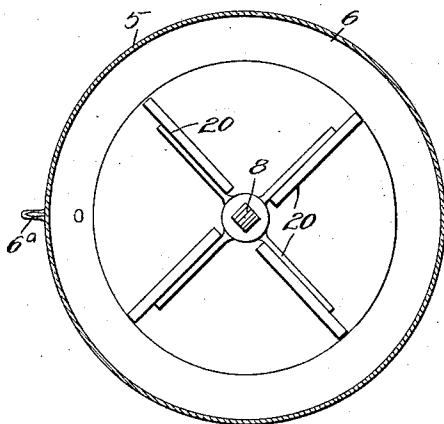


Fig. 3.



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WASHING DEVICE.

1,042,978.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that we, CARL SCHULTZ and SAMUEL SCHEER, citizens of the United States, residing at Richmond, in the county of Henrico and State of Virginia, have invented new and useful Improvements in Washing Devices, of which the following is a specification.

This invention relates to improvements in wash boilers and the leading object of the same is to provide a wash boiler with improved means mounted therein for compressing clothes during the operation of loosening the dirt therefrom by boiling water.

Another object of the invention is to provide a device adapted to be mounted in an ordinary wash boiler and including rotary means adapted to compress the clothes to be washed during the operation of loosening the dirt by boiling.

Another object of the invention is to provide a device adapted to be mounted in a wash boiler of rotary compressing means mounted for free vertical adjustment and means for rotating said compressing means.

Another object of the invention is to provide a device adapted to be mounted in a wash boiler including rotary clothes compressing means and a water agitator cooperating therewith.

With the above and other objects in view the invention consists in certain combinations, constructions, and arrangement of parts, clearly illustrated in the accompanying drawings and clearly described in the specification.

In the accompanying drawings; Figure 1 is a vertical sectional view through a wash boiler provided with the improved device; Fig. 2 is a horizontal sectional view taken on the line 2—2 of Fig. 1; Fig. 3 is a horizontal sectional view taken on the line 3—3 of Fig. 1; Fig. 4 is a top plan view.

Referring to the drawings 5 denotes a wash boiler of suitable design which may be provided with an outlet valve 6*, whereby the same may be readily drained when desired. The boiler 5 is preferably provided with a conical bottom 6 forming a seat for the open bottom 7, which is removably disposed on said conical bottom 6. The false or removable bottom 7 is in the form of a circular disk of metal or other material and formed with a series of spaced openings. A vertically disposed shaft 8 is journaled on said disk or bottom 7 and its upper end

extends above the upper end of the boiler or vessel 5, and shaft 8 is squared to receive an operating handle or crank 9 whereby said shaft may be rotated. The shaft 8 is held for rotation by a bar 10 which has a central bearing opening to receive the upper end of the shaft and which is provided with offset rim engaging U-shaped terminal portions 11, which are formed with openings 11' to receive the eyes or tongues 12' in which are inserted the pins 12.

The shaft 8 formed with a plurality of radially spaced grooves 14 adapted to receive the inner ends of the compressing roller hanger arms 15, which inner ends are formed with spaced flanges 16 whereby the same can have free vertical movement in the guide ways 14. The outer ends of the hanger arms 15 are bent downwardly and receive the trunnions or outer ends 17 of the shafts of the compressing rollers 18, which are made of iron or other heavy material and are suitably fluted to present a roughened surface to the clothes. The inner ends of the rollers 18 carry guides 19 adapted to move in the guideways 14. The weighted compressing rollers 18 are adapted to hold the clothes in a compact condition against the bottom or disk 7 and in this way promote the loosening of the dirt from the clothes.

The lower end of the shaft 8 carries a plurality of agitating arms 20 which are rotatable therewith and which operate below the bottom or disk 7 and are adapted to maintain the water in the lower part of the boiler or vessel 5 in constant motion. In this way a steam generating space is provided whereby the cleansing can be expedited.

In order to hold the steam within the receptacle or boiler 5 a cover comprising sections 21 and 22 is provided, said cover being connected by a series of hinges 23 to the bar 10 and held closed by means of latches 24. The hinges 23 may be formed out of the material of the bar 10 or riveted thereto in any conventional manner.

In using our improved device the boiler is positioned upon a stove and supplied with a suitable quantity of water and cleansing material and the clothes are inserted in the boiler and deposited upon the perforated bottom 7 and packed closely around the shaft 8. After this is done hangers are positioned on the shaft 8 so as to bring the

compressing rollers 18 in contact with the clothes. By rotating the shaft 8 through the medium of the crank or handle 9 the compression rollers 18 may be rotated, thereby packing the clothes more tightly within the boiler and holding them against the lifting action of the steam and hot water. Owing to the independent mounting of the rollers upon the guide 13 said rollers will have a variable vertical movement, which will prevent binding of their supports upon the guides and compensate for the unevenness of the upper surface of the clothes. This arrangement further provides for the ready removal of each or all of the rollers without removing the shaft, thus permitting the shaft to be operated after the rollers have been removed. The inner ends of the shafts and hangers are formed H-shaped to provide locking flanges which are adapted to interlock with the guideways formed in said shaft.

Having described our invention, we claim:

1. In combination with a vessel, a shaft journaled in the vessel and formed with a plurality of longitudinally extending guideways opening through the upper end thereof, a plurality of shafts having H-shaped inner ends slidably interlocking with the guideways and removable through the upper ends thereof, hangers for said shafts and having inner ends slidably interlock-

ing with said guideways and removable through the upper ends thereof, and compressing rollers carried by said shafts and adapted to be moved around said first shaft.

2. A washing device comprising a vessel having a conical lower end, a perforated bottom located in said vessel and bearing against the conical lower end thereof and spaced by said conical lower end from the bottom of said vessel, a shaft having its lower end journaled in said bottom and formed with a plurality of longitudinal guideways, shafts having H-shaped inner ends independently slidable in the guideways and movable over the perforated bottom with said shaft, hangers having depending outer ends supporting the outer ends of the shafts and H-shaped inner ends interlocking with the guideways, fluted rollers mounted on said second shafts and adapted to contact with said perforated bottom and be moved by said shaft over said bottom, and a top forming a bearing for said shaft.

In testimony whereof we affix our signatures in presence of two witnesses.

CARL SCHULTZ.
SAM. SCHEER.

Witnesses:

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WM. E. PALMER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."