Mar. 6, 1923.

L. L. SCHOMO.

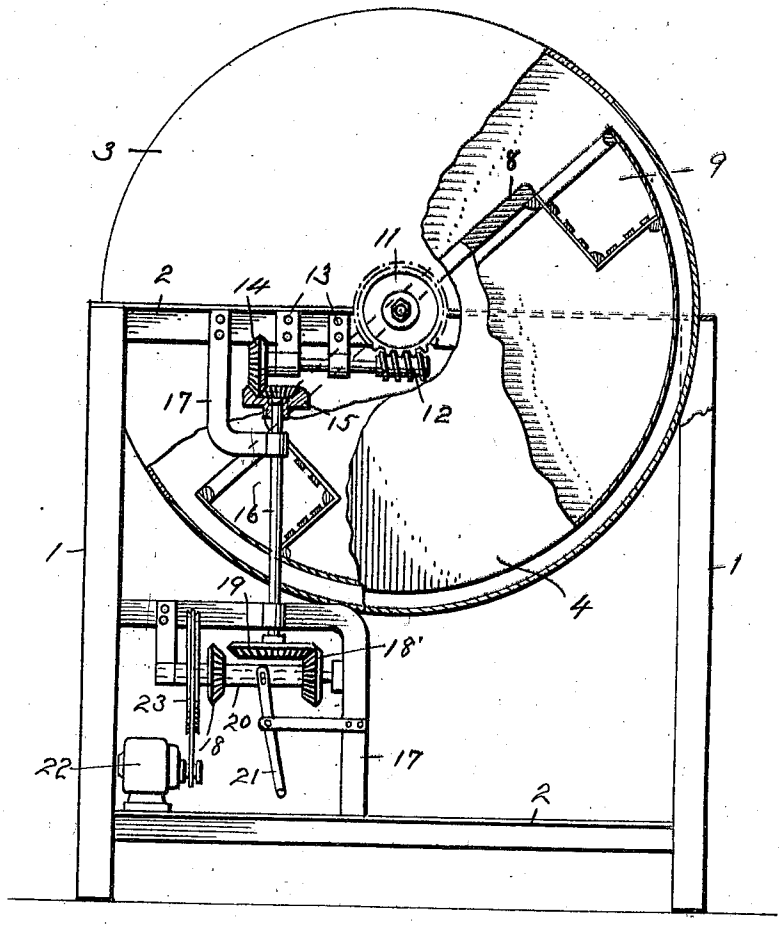
WASHING MACHINE.

FILED NOV. 23, 1920.

1,447,899.

2 SHEETS—SHEET 1.

Fig. 1.



WITNESSES
Guy M. Spring
Frank D. O'Connell

LAURENCE L. SCHOMO INVENTOR.

BY Richard B. Owen.

ATTORNEY.

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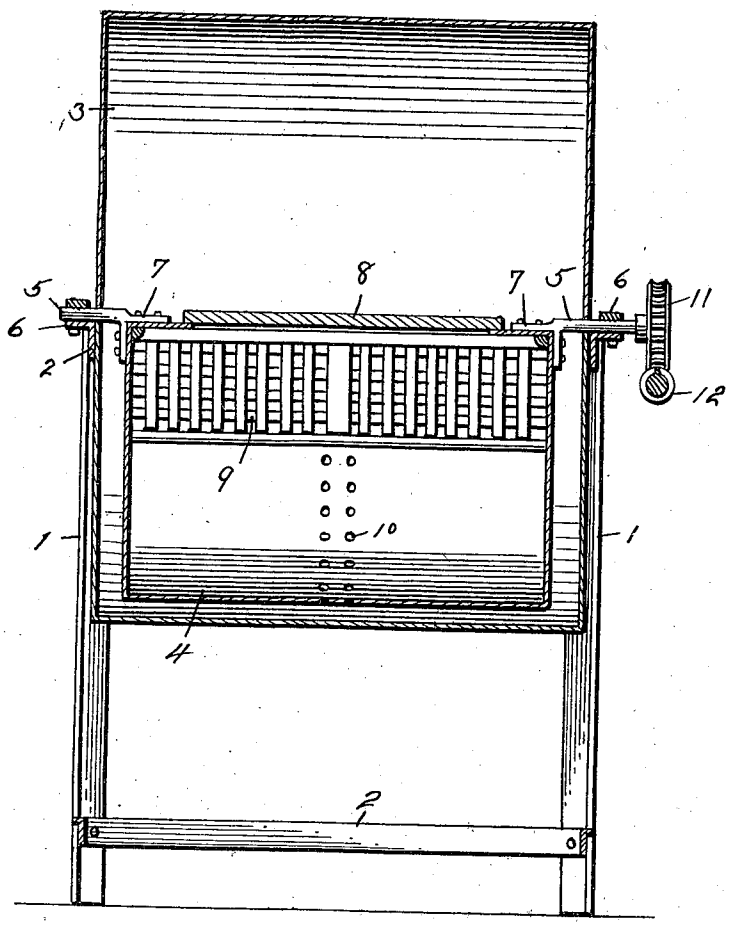
WASHING MACHINE.

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2 SHEETS—SHEET 2.

Fig. 2.



WITNESSES

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Patented Mar. 6, 1923. 1,447,899

UNITED STATES PATENT OFFICE.

LAURENCE L. SCHOMO, OF SAYRE, PENNSYLVANIA.

WASHING MACHINE.

Application filed November 23, 1920. Serial No. 425,987.

To all whom it may concern:

Be it known that I, LAURENCE L. SCHOMO, a citizen of the United States, residing at Sayre, in the county of Bradford and State of Pennsylvania, have invented certain new and useful Improvements in a Washing Machine, of which the following is a specification.

An object of the present invention is to provide a type of washing machine operating in such a manner as to systematically and thoroughly cleanse the articles of apparel placed therein and in a comparatively short time without danger of injuring or destroying the articles.

An additional object is to provide a washing machine in which the cleansing operation is accomplished through a system of forcing hot water in the machine through the clothes alternately as they are washed or agitated by the motion of the clothes container.

An additional object is to provide an improved type of clothes container into which hot water and steam is admitted and discharged through openings formed in opposite ends of the container, caused by the dipping and oscillating action given the container in the operation of the machine.

With the above and additional objects in view, the invention may be said to reside generally in the details of construction, combination and arrangement of parts as will be hereinafter more fully pointed out and described, reference being had to the accompanying drawings therein:

Figure 1 is a side elevation, partly in section, of the washing machine constructed in accordance with the invention, and

Figure 2, a vertical, cross sectional, view of the same.

The frame of the machine consists of four corner posts or legs 1 connected by the necessary staves or cross braces 2; this frame to be made of any suitable metal or wood adapted for the purpose. Upon the uppermost stave or cross brace, the steam and water container of the machine is mounted and secured so as to be stationary. This container, indicated at 3, may consist of a hollow drum formed in two sections; the lower section being secured within the frame or corner posts with the other section forming the top or cover for the drum. This container is to be filled with hot water or other liquid used in the cleansing process and is to be made of any suitable metal desired, being built of sufficient height to give proper clearance to the clothes container when same is in motion.

The clothes container into which are placed the clothes to be washed, is suspended, at the sides, from pinion shafts or axles 5 rotatably mounted through bearings 6 at the top of the frame and in line with the center of the water container. While other and various means may be resorted to for suspending the clothes container, in the present instance the shafts 5 are each provided with bracket ends 7 to which the container may be conveniently bolted or otherwise secured. The container is, for the most part, imperforate and is provided with a removable cover 8 placed on top to confine the clothes within the container. At opposite ends or edges the container is equipped with liquid receiving boxes 9, extending inwardly of the clothes container and constructed on the plan of ordinary lattice work with openings of proper size to allow the steam and water to pass through at each movement of the container but small enough to prevent the clothes from passing through. The removable cover is located between the steam boxes and provides the means whereby the clothes are placed within the container. The shape of this container is such as to permit it to be revolved readily within the outer container and it is provided along its bottom with a plurality of perforations 10 extending just a short distance to either side of the center line.

On the outside of one of the shafts 5 a gear 11 is provided. This gear is driven by a worm 12 rotatably supported in brackets 13 depending from the upper cross brace 2 of the frame. At the opposite end of the worm shaft the beveled gear 14 is mounted and meshing with this gear is a horizontally rotating gear 15, the latter being carried by a vertically disposed shaft 16 supported between upper and lower cross braces of the frame by means of a bracket 17. The shaft 16, which may be considered as the drive shaft, is in turn rotated through the meshing of either gear 18 and 18′ with the drive shaft gear 19. The gears 18 and 18′ are fixedly mounted upon a sliding sleeve 20 operated by means of a pivoted lever 21, so that either gear may be brought into engagement with the drive shaft gear for reversing the direction of rotation of the

drive shaft and consequently the motion of the clothes container. By intermittently shifting the lever 21 and alternately engaging the gears 18 18′ with the drive shaft gear, it is obvious that the clothes container may be caused to oscillate within the water container, alternating in each direction from forty five to ninety degrees.

Any suitable operating power may be employed for driving the machine as it is obvious that the device admits of being driven by hand, electric power, water power or otherwise as may be found most desirable. In the present instance the device is illustrated as being electrically driven by a motor 22 suitably arranged within the frame of the machine and connected by a belt pulley 23 to a sheave rigidly fixed to the slidable sleeve 20 upon which the gears 18 and 18′ are mounted.

In the operation of the machine, the clothes container is oscillated, with a quick action which not only agitates the clothes within the container but causes them to be thoroughly impregnated with the steam and water driven through the container. During the oscillating operation of the container, the steam and hot water pass into the liquid receiving boxes and through the clothes within the container. There is to be sufficient hot water in the water container to permit the clothes container to alternately dip water into the liquid receiving boxes at the ends of each stroke, in the course of its movement.

It is thus seen that in the operation of the machine the action of the clothes container is such that the alternate water dipping is such as to cause the water in the outer container to be thoroughly circulated through the clothes as they are, of course, agitated by the motion of the container.

While the foregoing may be considered as having reference to the preferred embodiment of the invention, it is to be understood that it is not limited to the disclosures herein made, but capable of modified application and entitled to all such changes and alterations as properly fall within the scope of the appended claim.

I claim:

A washing machine comprising a base, a stationary fluid container carried by the base including a cylindrical outer wall and disk-shaped side walls, an oscillatory clothes container mounted upon axles within the fluid container adapted to move through the fluid in the fluid container, said clothes container including a substantially semi-cylindrical bottom wall having a series of perforations therein at its transverse center, and semi-circular side walls, liquid receiving boxes carried by the clothes container and disposed at the opposite ends thereof for receiving the fluid from the fluid container, said boxes including reticulated inner and lower walls, and a cover for the clothes container disposed intermediate said boxes.

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

LAURENCE L. SCHOMO.

Witnesses:
WILLIAM T. CAREY,
W. C. PARK.