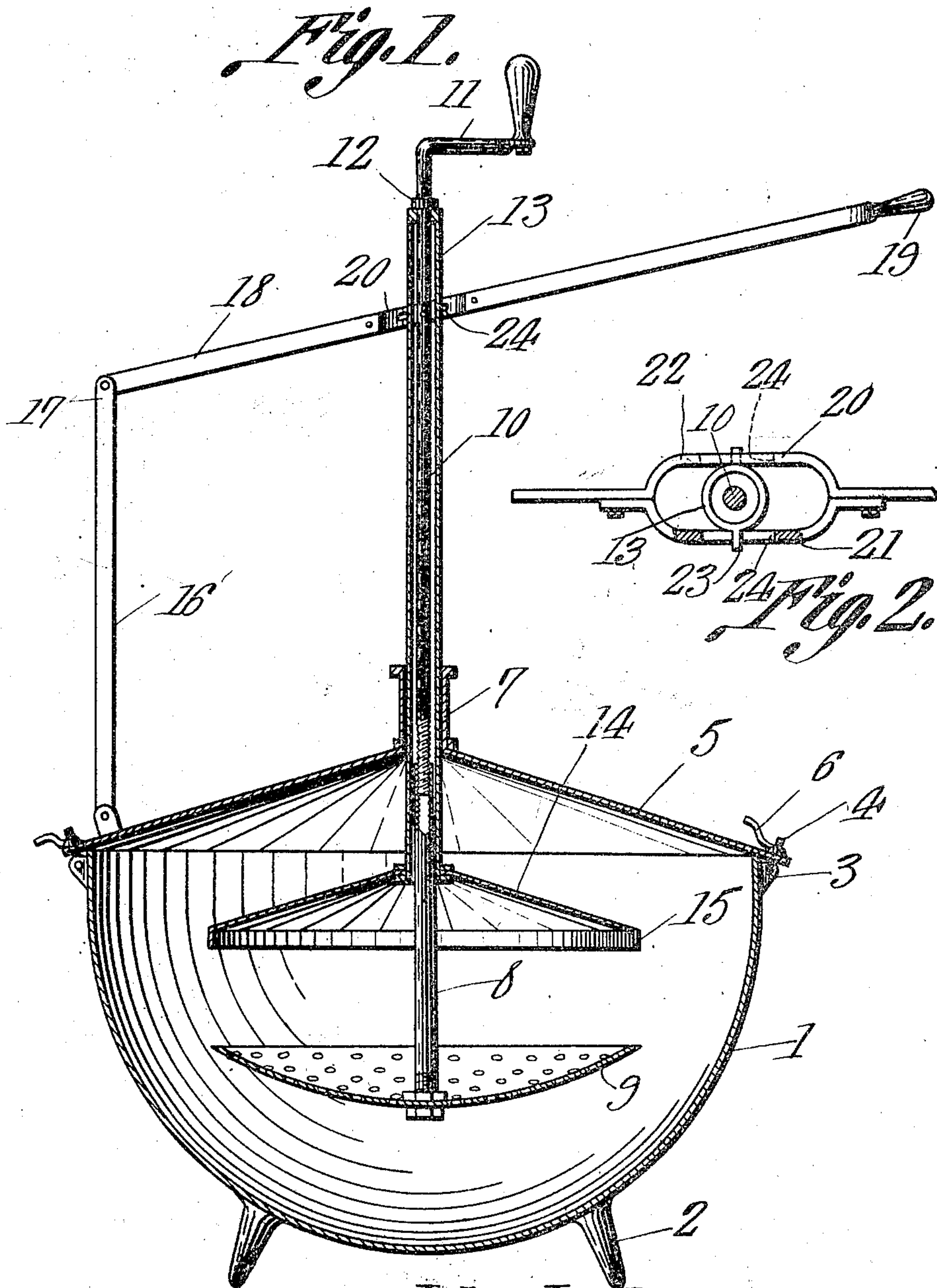


J. L. DENTON.
 WASHING MACHINE.
 APPLICATION FILED OCT. 19, 1910.

997,760.

Patented July 11, 1911.



Witnesses

J. P. Gomer
Herbert D. Lawson

John L. Denton, Inventor
 by *C. A. Snow & Co.*
 Attorneys

UNITED STATES PATENT OFFICE.

JOHN L. DENTON, OF WHITEWRIGHT, TEXAS.

WASHING-MACHINE.

997,760.

Specification of Letters Patent. Patented July 11, 1911.

Application filed October 19, 1910. Serial No. 587,926.

To all whom it may concern:

Be it known that I, JOHN L. DENTON, a citizen of the United States, residing at Whitewright, in the county of Grayson and State of Texas, have invented a new and useful Washing-Machine, of which the following is a specification.

This invention relates to washing machines, one of its objects being to simplify and otherwise improve upon machines of this type and produce a compact structure which is easy to operate and effective in use.

A further object is to improve upon the means for agitating the fabrics in the cleansing fluid.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the accompanying drawings the preferred form of the invention has been shown.

In said drawings: Figure 1 is a vertical longitudinal section through the machine. Fig. 2 is an enlarged section on the line A—B Fig. 1.

Referring to the figures by characters of reference 1 designates a receptacle preferably bowl shaped and mounted on legs or supports 2. This receptacle has ears 3 extending from the upper portion thereof at diametrically opposed points and each ear has a screw threaded locking bolt 4 pivotally connected to it and adapted to extend through the edge of a lid 5. These bolts are detachably engaged by nuts 6 whereby the lid 5 can be securely clamped upon the upper end of the receptacle 1.

The lid 5 is conical and has a central guide sleeve 7 which is formed integral therewith and is supported above the receptacle 1. A tube 8 is mounted to reciprocate within this sleeve and is secured, at its lower end, to the center of a concavo-convex holding member 9 which is provided with a plurality of apertures, as shown. The concave face of this member is uppermost and it will be apparent therefore that this member constitutes an efficient receptacle for the fabrics to be cleaned.

The upper portion of the tube 8 is screw-

threaded interiorly and is adjustably engaged by the lower threaded end of a rod 10 which extends upwardly through the sleeve 7 to a point some distance above the same and terminates in a crank 11 which is provided for the purpose of facilitating the rotation of the rod. A collar 12 may be located on the rod adjacent crank 11 and constitutes a stop or abutment for a tubular member 13 which is slidably mounted on the rod and within the sleeve 7. This tubular member projects into the receptacle 1 and is connected, at its lower end, to a concavo-convex pounder or plunger 14 having an annular flange 15, the concave face of this plunger being lowermost.

A supporting link 16 is pivotally mounted upon the upper face of the conical lid 5 and extends upwardly and is pivotally connected, as at 17, to a lever 18. This lever embraces the tubular member 13 and terminates in a handle 19. Where the lever embraces the member 13, it is preferably off-set laterally as shown at 20 and has a supplemental strip 21 secured to it so as to form an opening 22 through which the member 13 projects. This member may be formed with trunnions 23 adapted to work within slots 24 formed within the off-set portion 20 and the strip 21.

When it is desired to use the washing machine, the lid 5 is removed from the receptacle and the fabrics to be cleaned are placed upon the holding member 9 and below the member 14. Lid 5 is then replaced and secured and rod 10 is rotated by means of crank 11 so as to elevate the fabrics and bring them close to the member 14. By then oscillating the lever 18, the member 13 can be caused to reciprocate and will cause the plunger 14 to move downwardly and, at the same time, the holder 9 will also move downwardly until it reaches the bottom of the receptacle. Member 14 will then compress the fabrics upon the holder 9. By moving the lever 18 upwardly, the member 14 will first be raised off of the fabrics and member 13 will finally come into contact with collar 12 and lift the rod 10, and tube 8, and holder 9, thus causing the water to circulate downwardly through the fabrics contained upon the holder 9. When the lever 18 is again swung downwardly, the two elements 9 and 14 will move therewith until the holder 9 comes into contact with the bottom of the receptacle 1, whereupon

the member 14 will again compress the fabrics. This operation will be repeated during the oscillation of the lever 18, and it will be apparent, that, by reason of the circulation of water set up through the fabrics, that said fabrics will soon be thoroughly cleaned.

Importance is attached to the fact that various parts of the washing machine can be readily separated for the purpose of cleaning them. It will be noted also that the machine is formed of but few parts and cannot therefore readily get out of order. By utilizing the threaded rod 10, the parts 9 and 14 can be readily adjusted relative to each other so as to be adapted to different quantities of fabrics contained within the machine.

What is claimed is:—

1. A washing machine including a receptacle, a fabric holder, a pounder supported above and extending over the holder, means supported centrally of the pounder and holder for elevating the pounder independently of the holder, and cooperating means arranged centrally upon the pounder and holder for subsequently bodily elevating the holder with the pounder.

2. A washing machine including a receptacle, an apertured fabric holder, a pounder overhanging all portions of the holder, means supported centrally of the pounder and holder for adjusting the holder toward or away from the pounder, and oscillatory means for simultaneously moving the holder and pounder either downwardly or upwardly within the receptacle, said pounder

being movable downwardly subsequent to the stopping of the holder and being movable upwardly prior to the starting of said holder.

3. A washing machine including a receptacle, a guide supported thereabove, a tubular member slidably mounted within the guide, a pounder carried by said member and within the receptacle, an actuating device connected to said member, a fabric holder below the pounder, adjustable means extending through the tubular member for supporting the fabric holder, said means being mounted for sliding movement within the tubular member, and cooperating means upon the tubular member and the adjustable means for transmitting motion to said adjustable means from the tubular member.

4. A washing machine including a receptacle, a guide supported thereabove, a tubular member mounted for reciprocation within the guide, a pounder movable with said member, a fabric holder, adjustably connected devices extending from said holder and slidably mounted within the tubular member, one of said devices having means for rotating the same, and means upon one of said devices for limiting the relative movement of the devices within the tubular member.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JOHN L. DENTON.

Witnesses:

R. C. MAY,
W. H. KING.