No. 608,251. Patented Aug. 2, 1898.

A. A. CASLER.

WASHING MACHINE.

(Application filed Oct. 27, 1897.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.

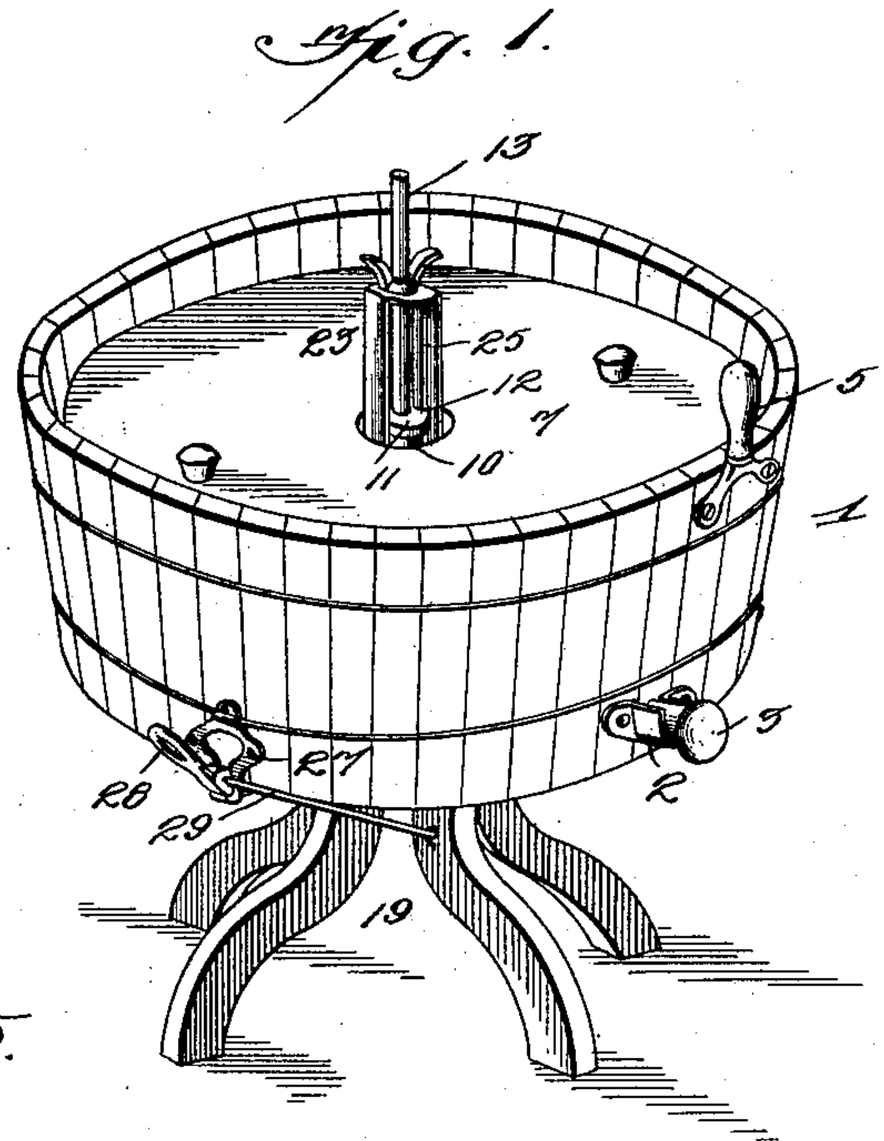
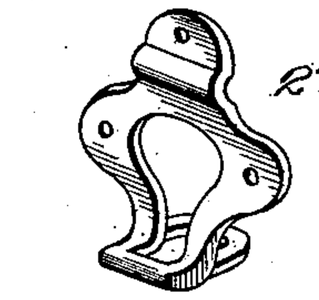


Fig. 5.



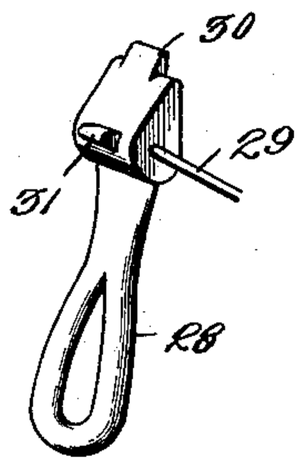
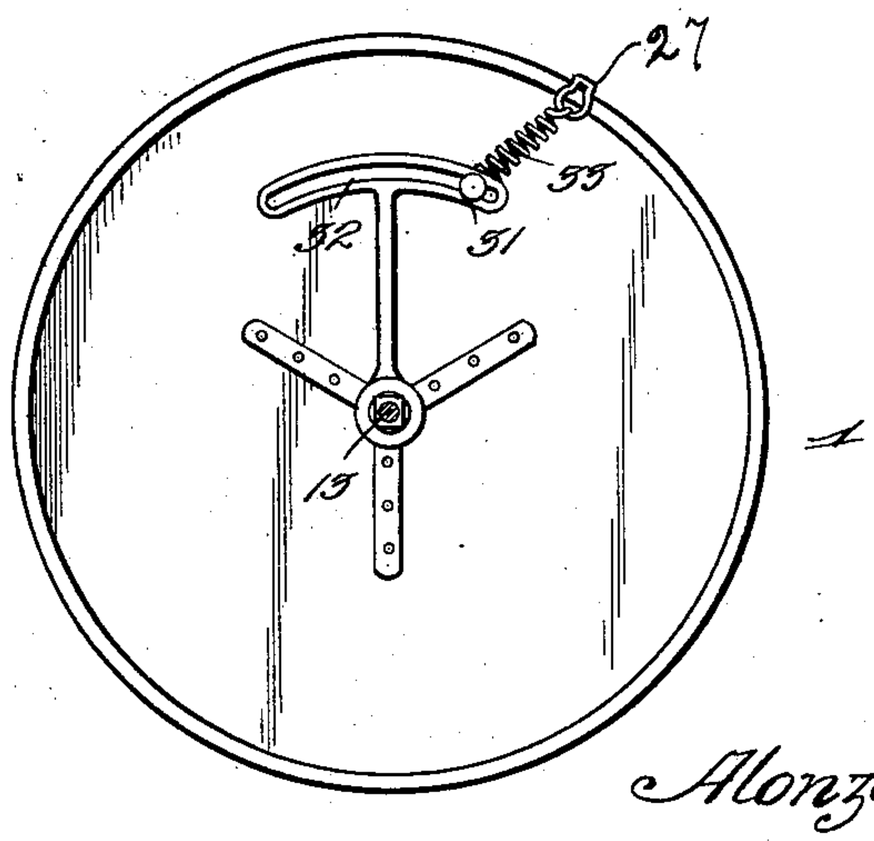


Fig. 2.



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(No Model.) 2 Sheets—Sheet 2.

Fig. 3.

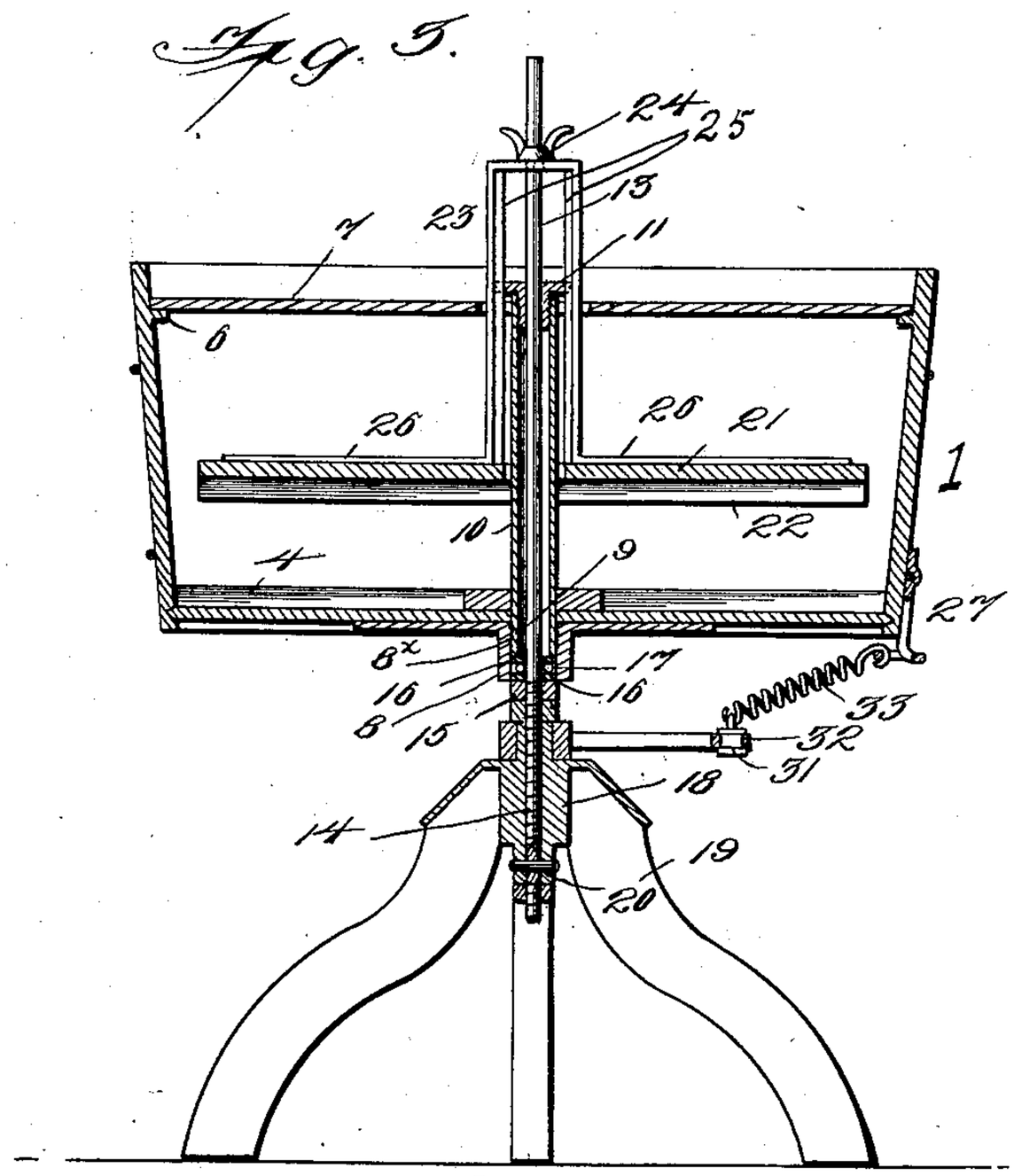
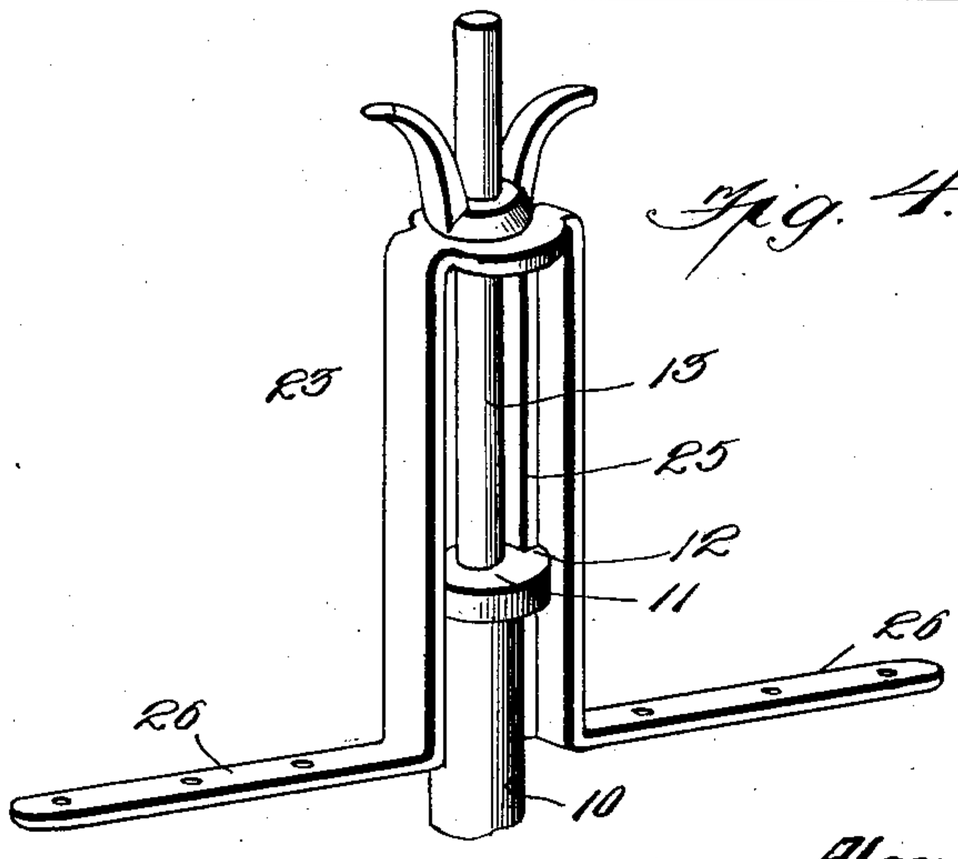


Fig. 4.



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UNITED STATES PATENT OFFICE.

ALONZO A. CASLER, OF LITTLE FALLS, NEW YORK.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 608,251, dated August 2, 1898.

Application filed October 27, 1897. Serial No. 656,535. (No model.)

To all whom it may concern:

Be it known that I, ALONZO A. CASLER, a citizen of the United States, residing at Little Falls, in the county of Herkimer and State of New York, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in washing-machines; and one object of my invention is the provision of a machine which operates very easily and will not fatigue the user.

Another object of my invention is the provision of a washing-machine which will not wear or tear the clothes and which will effect a perfect cleansing in a rapid manner.

Another object of my invention is the provision of a washing-machine which will be the embodiment of simplicity and durability, enabling the production of the machine at a low price.

To attain the desired objects, the invention consists of a washing-machine embodying novel features of construction and combination of parts substantially as disclosed herein.

Figure 1 represents a perspective view of my improved washing-machine. Fig. 2 represents a bottom plan view with the legs removed. Fig. 3 represents a vertical sectional view thereof, and Fig. 4 represents an enlarged detail view of the main portion of my washing-machine. Fig. 5 represents a detail view of the clamp for holding the tub or receptacle in a rigid position when desired.

Referring by numerals to the drawings, the numeral 1 designates the tub or receptacle of my washing-machine, which is provided with the discharge-spout 2, having the plug or stopper 3, the ribs 4 in its bottom arranged after the manner of the spokes of a wheel and forming the lower rubber of my machine, and the tub is further provided with the handle 5 for rotating the tub and with the flange 6, upon which is supported the cover or lid 7.

Upon the bottom of the tub is secured the sleeve or ferrule 8, which is provided in its upper portion with interior screw-threads $8^{\times}$, which are engaged by the threads 9 of the tube 10, which extends up in the tub or receptacle and is closed at the top by a head or cap 11, that is provided with diametrically opposite kerfs or recesses 12. Passing downward through the tube is a rod or stem 13, having its lower portion provided with screw-threads 14, which are engaged by nuts 15, which operate to support the ball-tracks 16, between which are arranged the balls 17 in the sleeve or ferrule 8. The extreme lower end of the stem passes through the four-socket casting 18, which receives the supporting-legs 19, and is engaged by a pin or suitable fastening 20.

From this construction it will be seen that the tub or receptacle is supported directly upon ball-bearings and that it requires but little effort to rotate the tub, and fitting upon the centrally-arranged tube is the upper rubber 21, having a series of ribs 22, similar in construction and arrangement to the ribs of the tub and rising from the center of the disk adjacent to the opening therein, and secured thereto by means of the lateral extensions 26 is the frame 23, having in its upper closed end the circular opening 24 to receive the rod or stem, and further provided with the ribs 25, which engage the kerfs or recesses 12 and allow a vertical movement of the rubbing-disk, but prevent any rotation thereof; and I further provide the frame at its top with the oppositely-arranged arms, which form a handle to permit an easy removal of the rubbing-disk when desired.

From this construction it will be seen that the tub rotates with ease and readiness and the disk remains stationary and the cleansing is perfectly performed between the ribbed surfaces of the tub and disk.

When it is desired to use the wringer upon the tub, I employ the fastening means consisting of the slotted plate 27, attached to the lower edge of the tub, with which engages the lever 28, pivoted upon the rod 29, having its ends connected to the supporting-legs, and said lever is provided with a lug 30, which fits in the slot of the neck of the plate, and with a stop or abutment 31, the whole forming an eccentric binding-clamp.

The labor of washing with my machine is greatly lessened by means of the slotted stop 32, in whose slot is movably engaged a spring

33, having its other end rigidly secured to a ring formed integral with the slotted plate 27, which is secured to the lower edge of the tub. The effect of the arrangement of these parts is to allow the tub or receptacle to be rotated a certain distance when the slotted stop exerts a tenison upon the spring and causes the spring to expand and quickly contract, pulling the tub or receptacle in the opposite direction, as is evident. Thus it will be seen that the labor of stopping and starting the tub in its opposite direction is dispensed with and the labor of washing is thus lessened.

The advantages of my machine will be readily understood and appreciated by all acquainted with such matters, and it is evident from its simplicity, durability, and inexpensiveness, its ease of operation and thorough efficiency, that it will commend itself as thoroughly practical and desirable.

I claim—

1. In a washing-machine the supporting-legs, the stem rising therefrom, the tub or receptacle provided with rubbing-ribs and having the central tube mounted upon said stem, the cap having the kerfs or recesses, and the upper rubber having the central opening fitting over the tube and having the frame extending upward therefrom and formed with ribs engaging said kerfs or recesses.

2. In a washing-machine the supporting-legs, the tub adapted to rotate thereon, the arm connected with the supporting-legs and formed with the slotted portion, and the spring having one end connected to the tub and the other end working in the slot.

3. In a washing-machine, the supporting-legs, the tub adapted to rotate thereon, the slotted plate secured to the lower edge of the tub, the bent rod having its ends pivoted to the supporting-legs, the eccentric or cam lever fulcrumed in the bent rod and provided with a lug and stop forming a lock in connection with the plate, an arm connected with the supporting-legs and formed with a slotted portion, and the spring having one end connected to the slotted plate and the other end working in the slotted portion of said arm.

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

ALONZO A. CASLER.

Witnesses:

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CHAS. E. RIORDON.