(No Model.)

J. W. WAYNICK.

WASHING MACHINE.

No. 479,863. Patented Aug. 2, 1892.

Fig. 1.

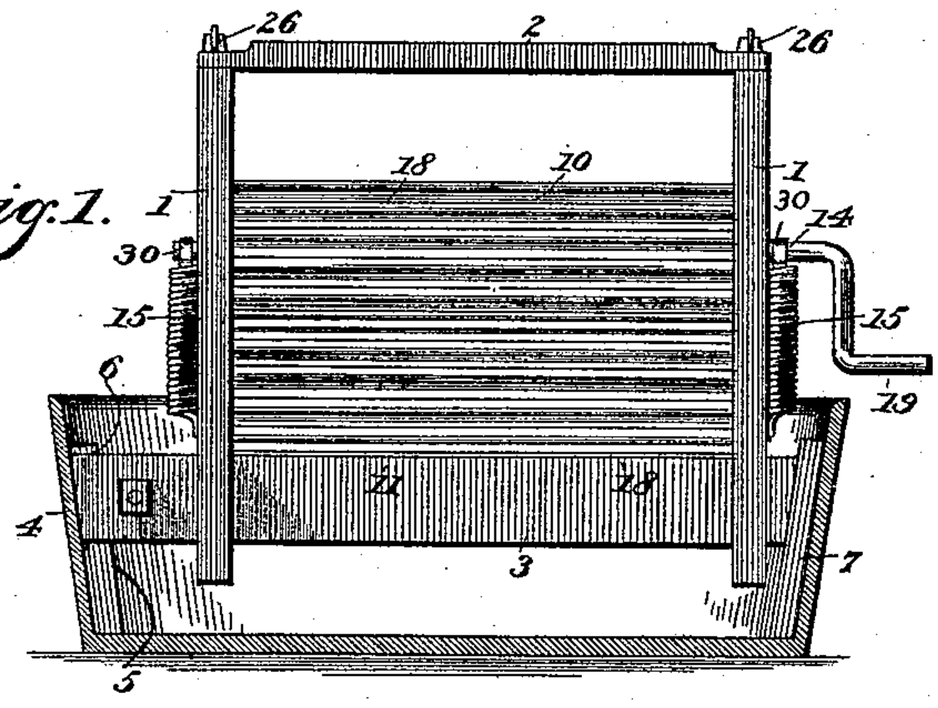


Fig. 2.

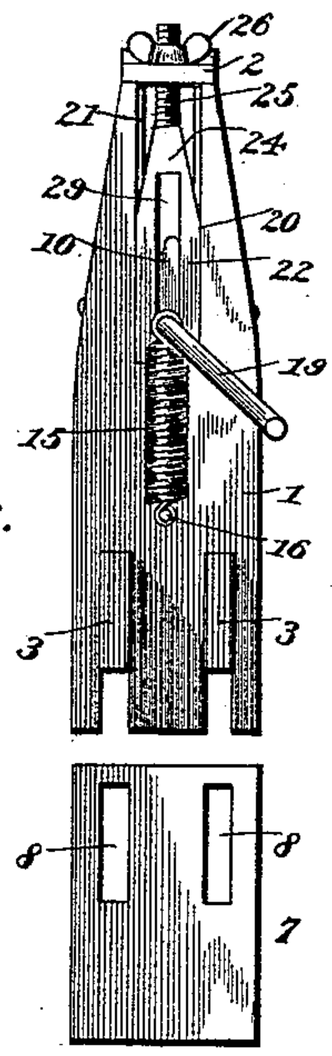


Fig. 3.

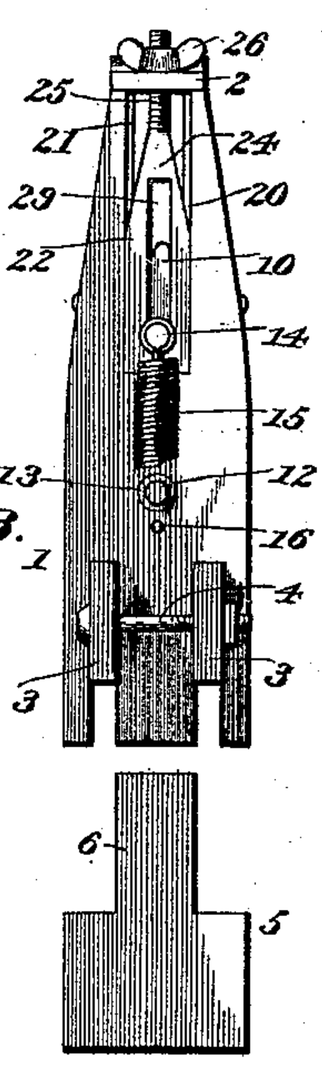


Fig. 4.

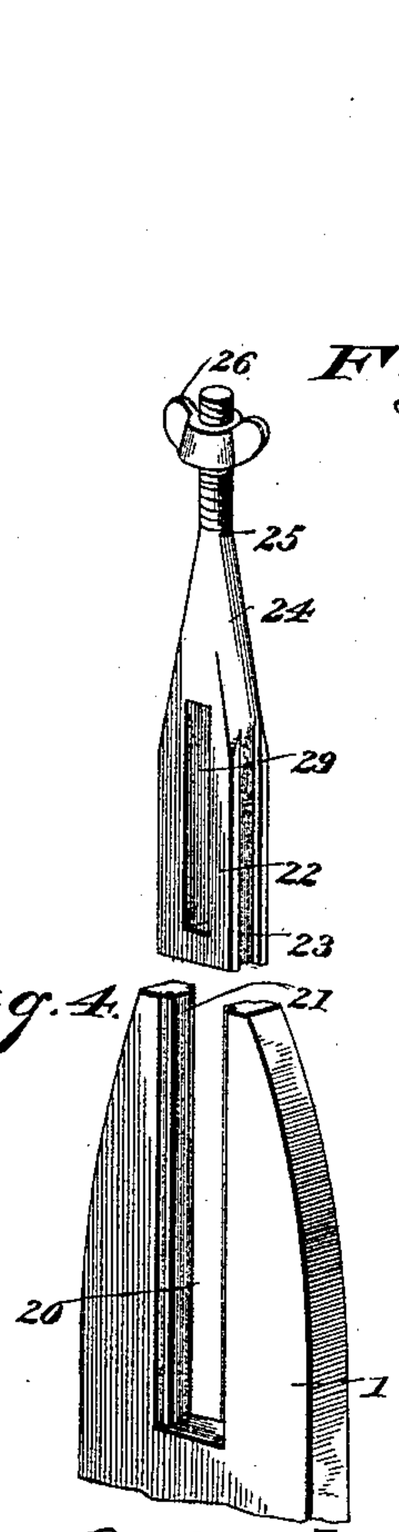
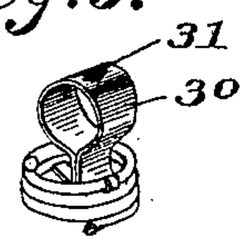


Fig. 5.



Witnesses;

J. M. Witherow

N. J. Collamer.

Inventor,

Jeff W. Waynick,

By Their Attorneys,

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

JEFFERSON WILSON WAYNICK, OF CHARITON, IOWA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 479,863, dated August 2, 1892.

Application filed November 27, 1891. Serial No. 413,295. (No model.)

To all whom it may concern:

Be it known that I, JEFFERSON WILSON WAYNICK, a citizen of the United States, residing at Chariton, in the county of Lucas and State of Iowa, have invented a new and useful Washing-Machine, of which the following is a specification.

This invention relates to roller washing-machines adapted for use in the laundry, and the object of the same is to effect certain improvements in devices of this character.

To this end the invention consists in a washing-machine constructed substantially as hereinafter more fully described and claimed, and as illustrated on the sheet of drawings, wherein—

Figure 1 is a section through a wash-tub, showing my improved washer in elevation as mounted therein on its detachable feet. Fig. 2 is an elevation of the crank end of this washer with the foot slightly removed. Fig. 3 is a similar elevation of the opposite end with the foot slightly raised. Fig. 4 is a perspective detail of a portion of one of the end pieces of the frame and the parts of the slotted bearing for the upper shaft slightly separated. Fig. 5 is an enlarged perspective detail of one of the ring-bearings.

Referring to the said drawings, the frame of my improved washer comprises end pieces 1, preferably connected by a top cross-bar 2 and by two parallel and slightly-separated base-bars 3, which extend through the end pieces and are connected at one end by a transverse tightening-bolt 4.

5 is a foot having a reduced upper end 6, adapted to pass between the connected ends of the base-bars outside the bolt, and when the latter is tightened this foot is clamped in place.

7 is another foot having slots 8, by which it may be detachably mounted on the opposite ends of the base-bars outside the other end piece 1, as shown in Fig. 1. By these the device may be supported within a tub 9, as shown.

10 and 11 are rollers, which are exact duplicates of each other in their dimensions. The journals of the lower roller are mounted, as seen at 12, in metal bushings or bearings 13 in the end pieces. The journals 14 of the upper roller pass through slots 20 in the end pieces and are mounted in rings 30, which are connected by coiled contractile springs 15 with pins 16, seated in the outer faces of the end pieces below these journals, whereby the upper roller is drawn down upon the lower with a yielding force. One end of the shaft of the upper roller is continued into a crank-handle 19, by which the device is operated. The rollers are fluted, as at 18. The flutes are preferably rounded slightly, and they are so arranged as to alternate with those on the opposite roller.

31 are oil-holes in the rings 30.

I have said that the end pieces are slotted, as at 20, and by reference to Fig. 4 it will be seen that each side wall of each slot is provided with a longitudinal tongue 21.

22 is a block sliding in each slot and having grooved edges 23 engaging these tongues, the reduced upper end 24 of the block passing through the top cross-bar 2 and being threaded, as at 25, for the reception of a nut 26. By this means the nuts may be set so as to raise the blocks within the slots of the end pieces and prevent the upper roller from coming in contact with the lower, although as the journals of this upper roller rest normally in the lower ends of the elongated bearings 29 in these blocks when a thick piece of clothing passes between the rollers the upper one can rise in its bearings to a considerable extent, as permitted by the springs 15.

This improved washing-machine being placed within a tub, the clothes are passed between the rollers in an obvious manner and are washed thereby. If the tub is deep, the feet 5 and 7 are applied to raise the device the proper distance above the bottom of the tub, the bolt 4 being tightened to hold the foot 5 in place. The nuts 26 are set so as to prevent the rollers coming closer together than is desired, and the clothes are then passed between the rollers, the upper one being revolved by its crank-handle 19, and the result will be that the clothes are thoroughly and quickly cleansed without injury thereto.

Considerable change in the details of construction may be made without departing from the spirit of my invention.

What is claimed as new is—

In a washing-machine, the combination, with the framework, whose end pieces are pro-

vided with vertical slots having longitudinal tongues on their opposite faces, a top bar connecting said pieces, and a lower roller journaled between these end pieces, of blocks mounted in said slots and having grooves engaging said tongues, the bodies of said blocks having longitudinally-slotted bearings and their upper ends being reduced and extended through said top bar, threads on said ends, nuts on said threads, an upper roller whose shaft is journaled in said bearings and extended at one end into a crank-handle, and springs bearing this roller normally toward the lower roller, substantially as hereinbefore set forth.

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

JEFFERSON WILSON WAYNICK.

Witnesses:

CLARA H. ALEXANDER,

HENRY C. WAYNICK.