

J. S. Sandt,

Washing Machine.

No. 113,352.

Patented Apr. 4. 1871.

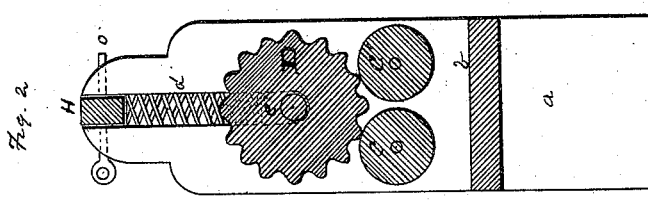
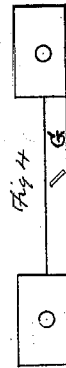
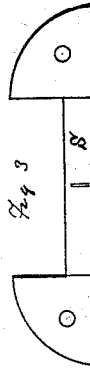
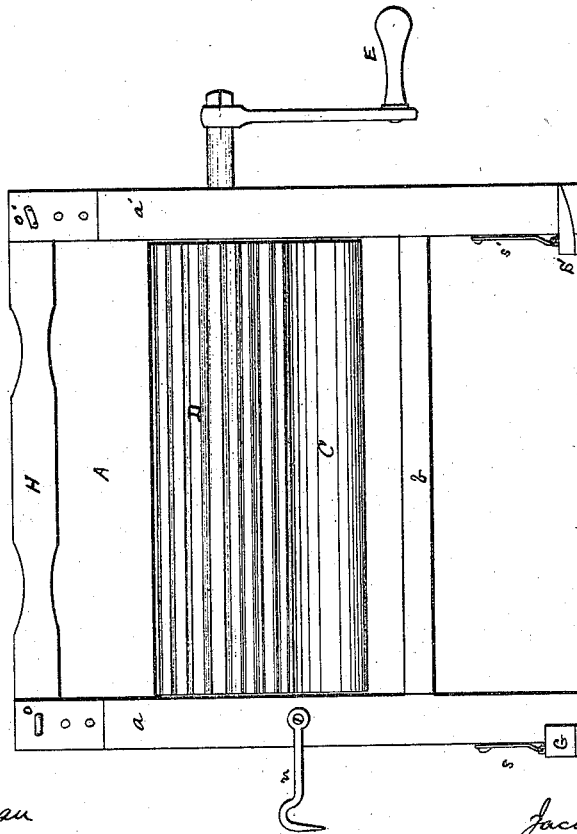


Fig. 1



WITNESSES

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INVENTOR

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att'y

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JACOB S. SANDT, OF ST. JOSEPH, MISSOURI.

Letters Patent No. 113,352, dated April 4, 1871.

IMPROVEMENT IN WASHING AND WRINGING-MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, JACOB S. SANDT, of St. Joseph, Buchanan county, in the State of Missouri, have invented a new and useful Combined Washing and Wringing-Machine, of which the following is a full, clear, and accurate description, reference being had to the annexed drawing making a part of this specification, and in which—

Figure 1 represents a front elevation of my machine.

Figure 2 represents a transverse section of same.

Figures 3 and 4 represent details of same, hereinafter described.

Similar letters indicate like parts.

The object of my invention is to produce an apparatus which, by a simple interchange of parts, may be used either as a washer or wringer, and which shall be easily attached to or removed from the tub with which it is used.

A represents a frame, consisting of two uprights *a* and a cross-piece, *b*.

Just above *b* are two rollers C, fig. 1, C C', fig. 2, having bearings in the uprights, as seen.

The tops of the uprights are slotted, as seen in fig. 2, the bottom of the slots affording bearings for the roller D, which has a crank, E, on one end, as seen, by which it is operated.

This roller has a corrugated metal covering, such as are commonly used in washing-machines, and the diameter of this roller is such that it engages with the lower rollers, which are made of wood, so as to press firmly upon anything placed between the rollers and itself.

Above the spindles of the corrugated roller are placed blocks *e e'*, *e* only being shown in fig. 2; and above the blocks, and resting upon them, are spiral springs *d d'*, *d* only being shown in fig. 2, and extending to the top of the slots in the uprights, the slots, of course, being grooved, so as to keep them in place.

A bar, H, figs. 1 2; extending from one upright to the other, rests in the slots, and, by means of pins *o o'*, fig. 1, *o*, fig. 2, passing through holes in it and the sides of the slots, is held firmly down upon the spiral springs.

There are other holes in the uprights, as seen in fig. 4, by which the pressure of the spring may be changed, at pleasure, by simply lowering or raising the bar from one series of holes to the other.

To fasten this to the top I have two cleats G S, figs. 1 3 4, arranged as seen in fig. 1, and screwed securely to the bottom of the tub

The uprights are then slipped into place, the hooks *s s'* fastened, and two other hooks, *n n'*, *n* only being shown in fig. 1, are slipped over the edge of the tub, making the whole very firm and secure.

The hook *n'* is directly back of *n*.

The apparatus is now ready for washing. The clothes being passed between the rollers C C' and the corrugated roller D, the crank E is operated back and forth, giving the clothing a thorough rubbing, but yet not such as to injure it.

When the articles are sufficiently washed and ready for wringing, I remove the corrugated roller by taking out the bar H and raising the roller out of the slots. I then insert in its place a roller, P, not shown, made of exactly the same size, but covered with rubber, like the rollers used in wringing-machines. The blocks, springs, and bar H being then replaced, and the crank E attached to the spindle of P, the apparatus is converted into a wringer. Of course, the pressure of the roller on the clothes may be regulated, as in the case of the washer, by means of the bar H acting on the spiral springs.

Among the advantages of my apparatus, aside from the effectiveness of its operation by reason of the arrangement and combination of three rollers instead of two, is the ease with which the apparatus is attached to the tub, its firmness when attached, and the saving of time and expense in having but one machine to perform both the washing and wringing.

I, of course, do not claim any novelty in the use of corrugated or rubber rollers in washing and wringing-machines; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

The combination of the frame A with slotted uprights *a a'*, rollers C C', corrugated roller D, cross-bar H, springs *d d'*, blocks *e e'*, cleats S G with their hooks *s s'*, all arranged for joint operation, and constructed substantially as and for the purpose shown and specified.

JACOB S. SANDT.

Witnesses:

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