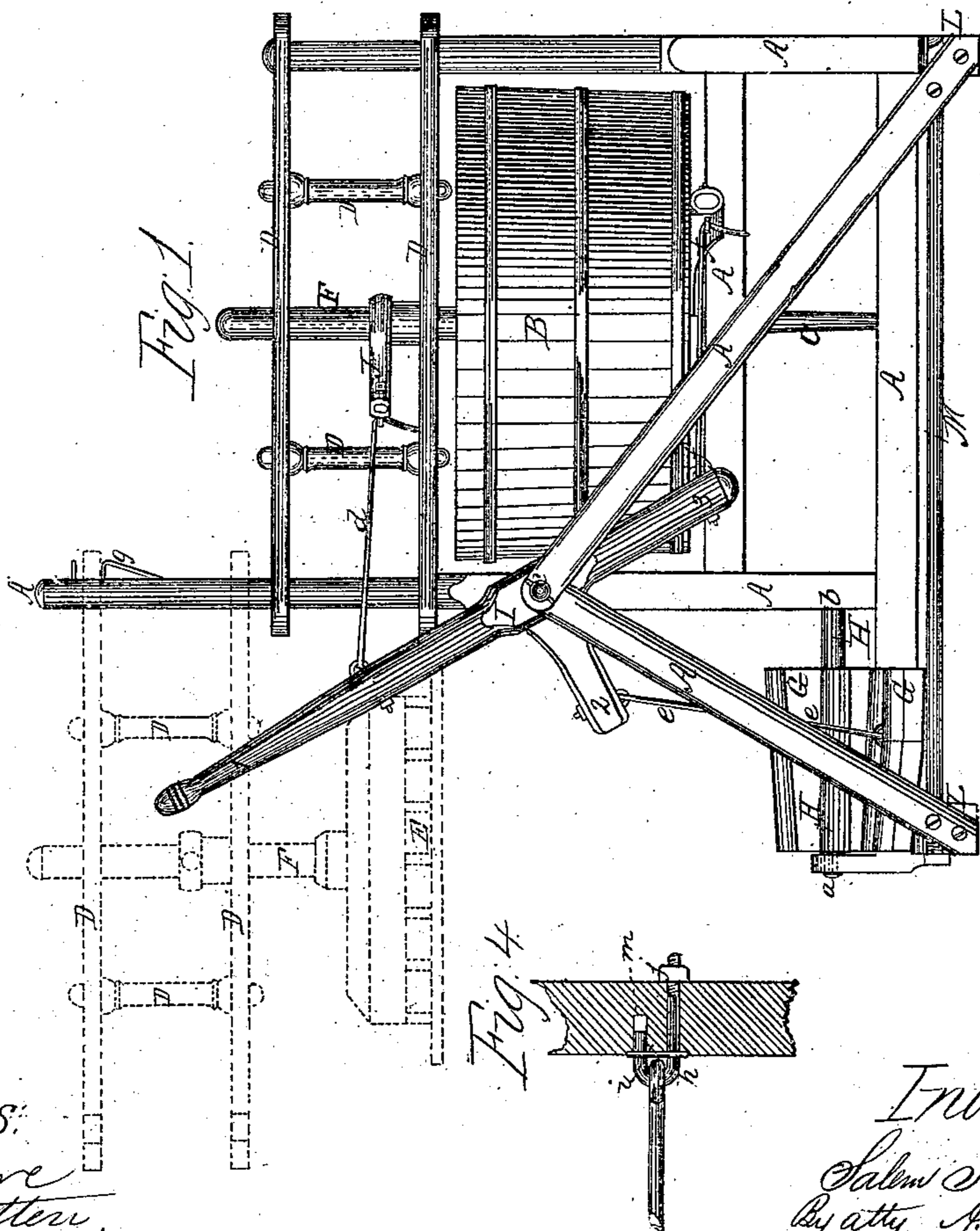
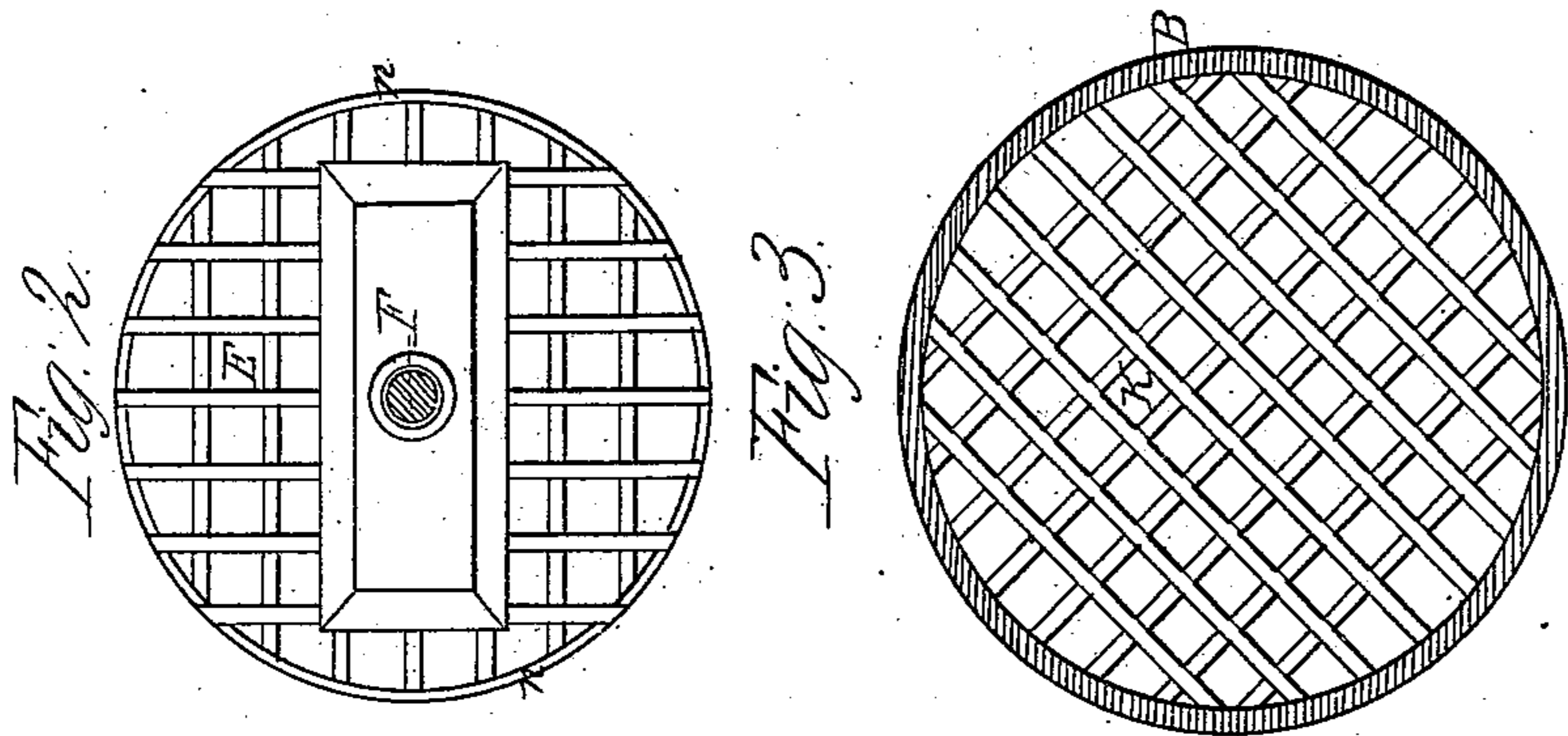


S. T. Lamb:

Washing Machine,

No. 42,089,

Patented Mar. 29, 1864.



Witnesses:
A. Moore
Ed. Patten

Inventor:
Salem T. Lamb
By atty A. B. Slaughter

UNITED STATES PATENT OFFICE.

SALEM T. LAMB, OF NEW WASHINGTON, INDIANA.

IMPROVED WASHING-MACHINE.

Specification forming part of Letters Patent No. 42,089, dated March 29, 1864.

To all whom it may concern:

Be it known that I, SALEM T. LAMB, of New Washington, in the county of Clark and State of Indiana, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents an elevation of the machine from one of its sides, showing in red lines the rubber and its frame as raised up and swung around out of the way to gain easy access to the tub for placing, removing, or rinsing the clothes to be washed. Fig. 2 represents a top plan of the rubber. Fig. 3 represents a plan of the open lattice or grating in the bottom of the tub, to form, in connection with the rubber, the washing-surfaces. Fig. 4 represents the manner of constructing the hook-connections for the pitman-rods, so that any wear or backlash may be taken up by them, and cause the machine to work smoothly and noiselessly.

Similar letters of reference where they occur in the separate figures denote like parts of the machine in all the drawings.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same with reference to the drawings.

A represents a stand for holding the tub, rubber, and the appliances for operating them. The tub B has a spindle, C, secured to its bottom, which passes through the upper horizontal piece of the stand and sets in a step in the lower one, so that it may be freely oscillated on said spindle.

Over the two upright posts of the stand or frame is passed the frame D, which carries the rubbing-disk E, it being secured thereto by its shaft F, which allows it to rise and fall to accommodate itself to the bulk of clothes in the tub. The frame D can also rise and fall, to raise or lower the rubbing-disk E if necessary.

G is a treadle, hung to a central shaft, H, so that it may be freely locked on or with said shaft, the shaft being supported at *a b*, as shown.

I is a three armed lever, pivoted to the frame or stand A &c. The arm 1 constitutes a handle,

which the operator may seize to work or to aid in working the rubbers, and it is attached to the shaft F of the rubber E by a rod, *d*, so as to turn said shaft or rubber, the rod being linked to the end of an arm, J, projecting from said shaft, for this purpose. The arm 2 is connected to the treadle G by a rod, *e*, and the arm 3 is connected to the tub B by a rod, *f*, so that whether the treadle alone or the lever I alone be used, or whether both be used, the tub will oscillate in one direction, while the rubber E will oscillate in the opposite direction.

The operator may stand with both feet on the treadle—one foot at or near each end of it—and, catching hold of the high post A' of the frame or stand with the left hand to steady himself or herself and of the lever 1 (or I) with the right hand, the machine can be set in motion and easily worked by the feet and right hand together, or by either separately, as above mentioned.

In or on the bottom and inside of the tub is placed the latticed or slatted bottom K, which, as well as the rubber E, being of open work, allows the water or suds to freely permeate through the clothes as the two are oscillated in the act of washing.

The frame D, carrying the rubber E, can be raised up on the high post A', where it is caught by an umbrella or other spring *g*, and then it may be swung out of the way, as shown by the red lines in Fig. 1, for putting in, or for taking out, or for rinsing the clothes in the same tub in which they were washed.

That the machine may work freely and without noise, consequent on the wearing of the links or rods *d e f*, or by the hooks to which they are respectively attached, or by both, I arrange as follows: The hooks *h*, Fig. 4, have but one long shank, which passes through a washer, *i*, thence through the arm I, and is fastened by a nut, *j*. The short arm of the hook also passes through the washer *i*, thence into a hole bored into but not through said arm, as shown at *m*. By this construction and arrangement, should any of the rods get too loose, so as to cause backlash or noise, the nuts *j* may be run up until all work smoothly, and thus avoid both.

The ring *n* around the rubber E prevents it from working too close to the bottom K or from injuring the clothes.

The feet L of the frame are braced by the lower horizontal pieces, A M, which extend out far enough to form a support for the treadle G, and from these feet also rise inclined braces, which meet at the point c, where the lever I is pivoted, thus making a substantial frame as well as a firm support for the lever I.

Having thus fully described the construction and operation of my machine, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of a tub and rubber, constructed, arranged, and operating together

as herein described, and for the purpose set forth.

2. The suspending of the rubber-disk E and its frame D on the high post A by means of a spring-catch, g, when used for the purpose herein described.

3. The treadle G, in combination with the three-armed lever I, as and for the purpose herein described.

SALEM T. LAMB.

Witnesses:

B. CAMPBELL,
JOHN BOWER.