

D. C. MITCHELL.
Washing-Machines.

No. 153,266.

Patented July 21, 1874.

Fig. 1.

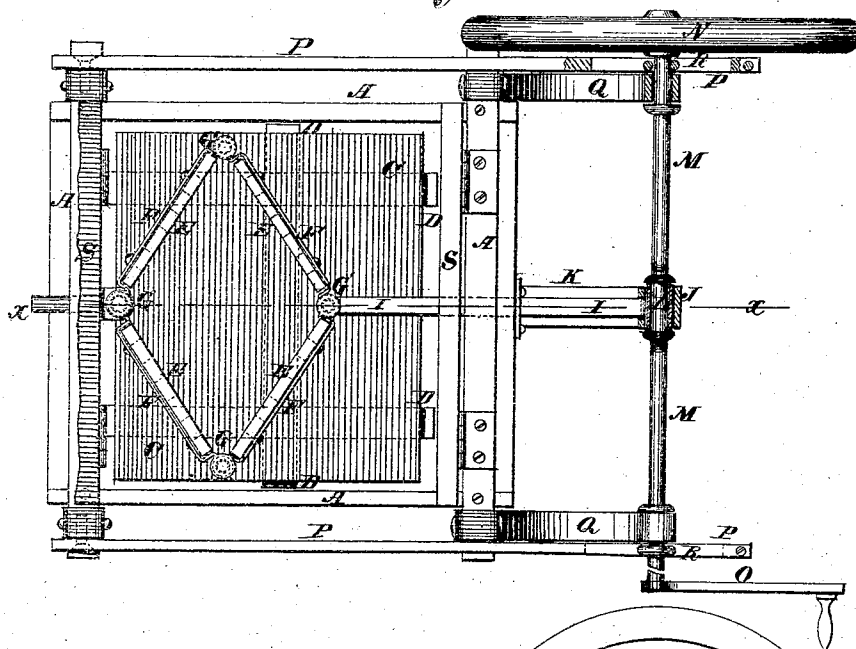
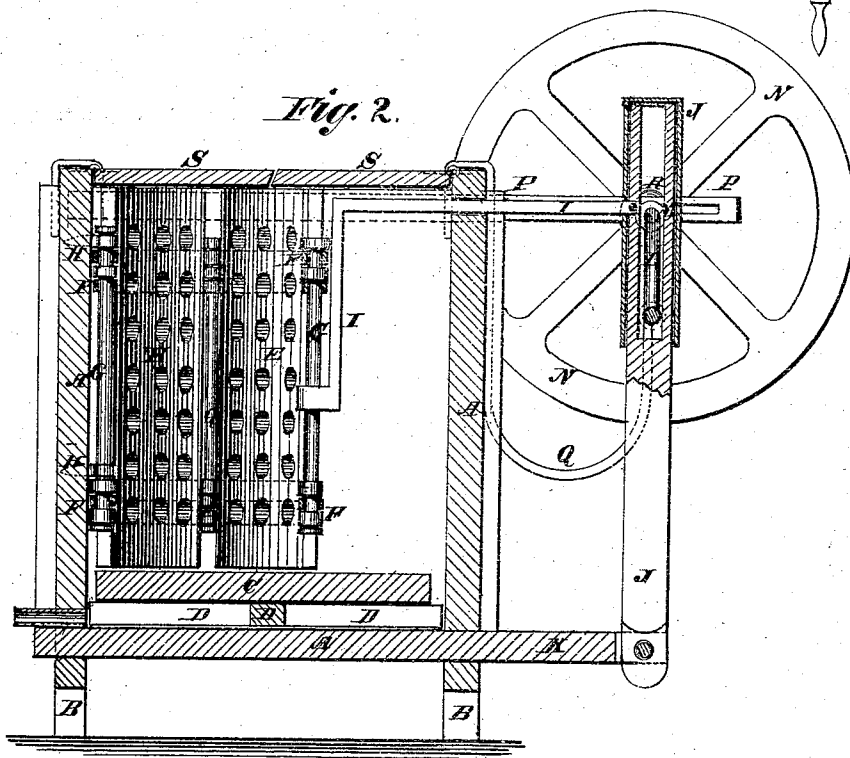


Fig. 2.



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IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **153,266**, dated July 21, 1874; application filed March 21, 1874.

To all whom it may concern :

Be it known that I, DANIEL C. MITCHELL, of San Marcos, in the county of Hays and State of Texas, have invented a new and useful Improvement in Washing-Machines, of which the following is a specification :

Figure 1 is a top view of my improved washing-machine, one part of the cover being turned up into a vertical position, and the other part being turned back and broken off. Fig. 2 is a vertical section of the same, taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The invention will first be fully described, and then pointed out in the claims.

A is the suds-box of the machine, which is made rectangular in form, and is supported upon legs B, of such a length as to raise the machine to a convenient height. C is a false bottom, which is made a little smaller than the suds-box A, so as to leave a space all around its edges for the dirt washed from the clothes to pass through and settle in the space between said false bottom C and the true bottom of the suds-box. The false bottom C rests upon bars or a frame, D, laid upon the true bottom of the suds-box. E are four boards of equal size, and which are perforated with numerous holes to allow the water to pass through freely. To the outer sides of the upper and lower parts of each of the boards E are attached straps F, made of white metal, or other metal not liable to rust, and the ends of which project at the edges of said boards, and have eyes formed in them to receive the pintles G, thus forming a box open at top and bottom, and having its sides hinged to each other at their edges. The lower end of the clothes-box E F G rests upon the false bottom C, and the pintle G at one corner passes through the eyes of eyebolts H, attached to the middle part of one side of the suds-box A. The pintle G at the opposite corner passes through an eye formed in the end of the bar I, which passes through a hole in the upper part of the side of the suds-box A, and which is bent downward at right angles, as shown in Fig. 2, so as to bring its eye to the middle part of said pintle G. The outer end of the bar I is pivoted to the upper part of the bar J, the lower end of

which is pivoted to the lower part of the suds-box A, or to an arm, K, attached to said suds-box. The upper part of the bar J is slotted longitudinally to receive the crank L, formed upon the middle part of the shaft M, to one end of which is attached a fly-wheel, N, and to its other end is attached the crank O, by which the machine is operated. The crank-shaft M revolves in longitudinal slots in the ends of the horizontal bars P, which are securely attached to the opposite sides of the upper part of the suds-box A. Q are two U-springs, one arm of each of which is attached to the side of the suds-box A. In the ends of the other arms of the U-springs Q are formed eyes, through which the shaft M passes. In ordinary washing the springs Q are not used, and the shaft M is held in place by staples or pins R passed through the bars P upon the opposite sides of the said shaft, so as to keep it in place. When bed-quilts or other large articles are to be washed, the staples R are withdrawn, allowing the backward pressure to be resisted by the springs Q. S is the cover, which is made in two parts, hinged at their outer edges to the top edge of the suds-box A, and which, when shut down, serve as a cover to both the suds-box A and clothes-box E F G. In using the machine the clothes to be washed are placed in the clothes-box E F G, and the crank O is operated, the effect of which is to work the boards E upon their hinges E G, alternately compressing the clothes in opposite direction, and allowing them to become again saturated, washing them clean in a very short time.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with four boards, E, jointed together as shown, of the bar I, the slotted bar J, and the crank-shaft L M, as and for the purpose described.

2. The springs Q Q, combined with suds-box and shaft M, as and for the purpose specified.

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Witnesses:

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