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UNITED STATES PATENT OFFICE.

SAMUEL C. WILSON, OF FOREST CITY, ARKANSAS.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 185,274, dated December 12, 1876; application filed October 23, 1876.

To all whom it may concern:

Be it known that I, SAMUEL C. WILSON, of Forest City, in the county of St. Francis and State of Arkansas, have invented a new and useful Improvement in Washing-Machine, of which the following is a specification:

Figure 1 is a top view of my improved machine. Fig. 2 is a vertical longitudinal section of the same, taken through the line $x x$, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved machine for washing clothes, which shall be simple in construction, effective in operation, convenient in use, and easily operated.

The invention consists in the combination of the frame, the gear-wheels, the crank-wheels, the connecting-rods, and the presser-blocks with each other, and with the suds-box; and in the combination of the inclined block, the rollers, the ratchet-wheels and pawls, the pivoted levers, and the connecting-rods with the crank-wheels, the gear-wheels, the connecting-rods, the presser-blocks, and the suds-box, as hereinafter fully described.

A is the suds-box, which is made rectangular in form, and to which, at one end, is secured an upright frame, B. To the upper part of the side bars of the frame B are attached bearings, in which works a shaft, C. To the ends of the shaft C are attached the cranks D, by which the machine is operated. To the center of the shaft C is attached a larger gear-wheel, E, the teeth of which mesh into the teeth of a gear-wheel, F, attached to the shaft G. The shaft G revolves in bearings attached to the frame B, and to its ends are attached two crank-wheels, H, to the crank-pins of which are pivoted the rear ends of two connecting-rods, I. The forward ends of the connecting-rods I are pivoted to the presser-blocks J, which have two or more rabbets formed upon their forward sides, as shown in Figs. 1 and 2.

The crank-pins of the crank-wheels H are so arranged that the presser-blocks J may always be moving in opposite directions, and may thus operate upon the clothes alternately.

To the forward part of the bottom of the suds-box A is attached an inclined block, K,

up which the presser-blocks J slide as they move forward to press the clothes against the rollers L. The rollers L may be fluted, or may be formed by attaching rounds to two disks. The outer journals of the rollers L revolve in bearings in the sides of the suds-box A, and their inner journals revolve in bearings in a support, M, attached to the said suds-box in the middle part of its forward end. To the outer ends of the rollers L are attached ratchet-wheels N, with the teeth of which the pawls O engage. The pawls O are pivoted to the lower ends of the levers P, which are pivoted to standards Q, attached to the sides of the suds-box A. To the upper ends of the levers P are pivoted the forward ends of the connecting-rods R, the rear ends of which are pivoted to the crank-pins of the crank-wheels H.

By this construction, as each presser-block J moves forward and presses the clothes against the roller L the pawl O of that roller will be drawn back, and as the presser-block is drawn back the pawl O will be pushed forward to turn the roller L and change the position of the clothes, so that they may be operated upon each time in a new place.

The clothes may be placed in the suds-box A, between the presser-blocks J and the rollers L; or they may be wrapped around and secured to said rollers L. The clothes may be pressed against a concave rubber attached to the end of the suds-box A, if desired.

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

1. The combination of the frame B, the gear-wheels E F, the crank-wheels H, the connecting-rods I, and the presser-block J with each other, and with the suds-box A, substantially as herein shown and described.

2. The combination of the inclined block K, the rollers L, the ratchet-wheels and pawls N O, the pivoted levers P, and the connecting-rods R with the crank-wheels H, the gear-wheels E F, the connecting-rods I, the presser-blocks J, and the suds-box A, substantially as herein shown and described.

SAMUEL C. WILSON.

Witnesses:

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