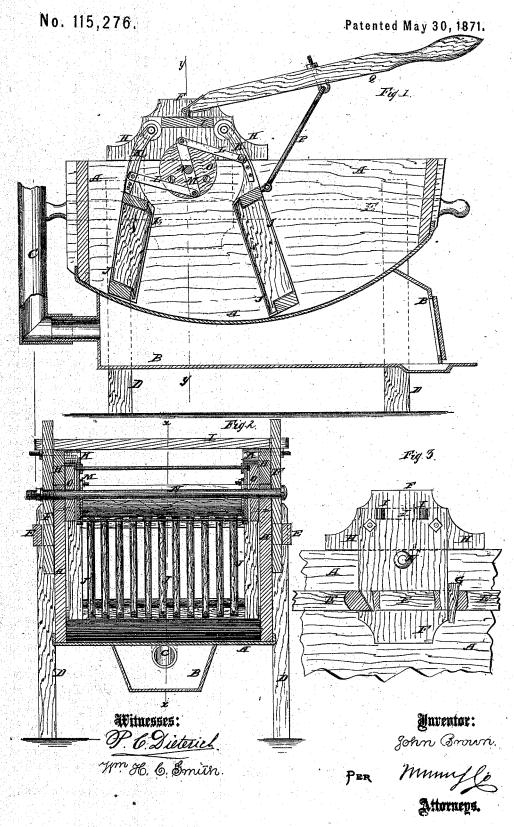
JOHN BROWN.

Improvement in Washing Machines.



UNITED STATES PATENT OFFICE.

JOHN BROWN, OF WEST MANCHESTER, OHIO.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 115,276, dated May 30, 1871.

To all whom it may concern:

Be it known that I, John Brown, of West Manchester, in the county of Preble and State of Ohio, have invented a new and useful Improvement in Washing-Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a vertical longitudinal section of my improved machine taken through the line x x, Fig. 2. Fig. 2 is a vertical cross-section of the same taken through the line y y, Fig. 1. Fig. 3 is a detail side view of a portion of the machine, part being broken away

to show the construction.

Similar letters of reference indicate corre-

sponding parts.

My invention has for its object to furnish an improved washing-machine, simple in construction, easily and conveniently operated, and effective in operation, washing the clothes quickly and thoroughly, and without injury; and it consists in the construction and combination of the various parts of the machine, as hereinafter more fully described.

A is the box or tub of the machine, the sides and ends of which are made vertical, and the bottom of which is curved, as shown in Fig. 1. The bottom of the tub is made of copper or galvanized sheet-iron, so that a furnace, B, may be placed beneath it to boil the clothes while they are being washed. The furnace B is made of heavy sheet-iron, and is securely riveted to the bottom of the tub. The smoke and other products of combustion are carried off through the pipe C. The tub A is supported upon legs D of such a length as to raise the machine to a convenient height. E are bars attached to the sides of the tub A and to the upper parts of the legs D. The ends of the bars E project beyond the ends of the tub A to serve as handles for convenience in moving the machine. The inner sides of the bars E, toward the rear end of the tub A, have long notches formed in them to receive the lower ends of the standards F. One end of the notch in the bars E is made inclined to fit into a notch in the side edge of the standards

F, so that, when secured by the wedge-keys G, the said standards will be locked securely in place. To the upper ends of the standards F are attached cross-bars H, which rests upon the upper edges of the sides of the tub A. I is a cross-bar, the ends of which are secured to the upper ends of the standards F, or to the cross-bars H, or to both. J are the beaters, which consist of a series of vertical bars with beveled or rounded forward edges, the ends of which are attached to cross-bars. The upper ends of the end bars of the beaters are extended upward to form arms K, or have arms attached to them. The upper ends of the arms K are pivoted to the cross-bars H. To the arms K are pivoted the outer ends of the short connecting-rods L, the inner ends of which are pivoted to the ends of the equal-armed levers M, which are pivoted, at their middle points, to the rod N. The rod N passes through the standards F, through the upper parts of the sides of the tub A, and through the disks O, attached to the upper part of the sides of the tub, and which overlap the inner sides of the cross-bars H and serve as washers to the equal-armed levers M. The rod N. to which the equal-armed levers M are pivoted, and the rods that pivot the ends of the equal-armed levers to the ends of the connecting-rods L, extend across the tub, so that the connections upon the opposite sides of the tub may work together. To one of the beaters J is pivoted the lower ends of the connectingrod P, which I prefer to make V-shaped, and which is pivoted, at its angle, to the middle part of the lever Q. The inner end of the lever Q is pivoted to the middle part of the cross-bar I. The outer end of the lever Q projects, at the end of the tub A, into such a position that it can be conveniently reached and operated.

The clothes to be washed are placed between the beaters J, and, by operating the lever Q, they may be squeezed between the two beaters, and then allowed to fall back into the water, and so on. By turning the lever Q back over the other end of the tub A the beater J next said lever will be raised out of the way for convenience in putting in and tabling cent the electhor.

taking out the clothes.

Having thus described my invention, I claim

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1. The combination of the two pivoted beaters J J, connection-bars L, equal-armed levers M, connecting-rod P, and pivoted lever Q, with each other, said parts being constructed and operating substantially as herein shown and

described, and for the purpose set forth.

2. The arrangement of the standards F, cross-bars H, cross-bar I, and disks O, with each other and with the side bars E and tub

HUGH GARNETT, Hilling the operating mechanism of Hilling JOHN MURRAY.

as new and desire to secure by Letters Pat-1 the machine, substantially as herein shown and described.

3. The two beaters J J, pivoted at their upper ends, and arranged to move together toward and from each other, for washing clothes, substantially as herein shown and described, and for the purpose set forth.