

UNITED STATES PATENT OFFICE.

HENRY CALKINS AND SAMUEL HARPER BUNTEN, OF BRADSHAW, NEBR.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 328,285, dated October 13, 1885.

Application filed January 22, 1885. Serial No. 153,648. (No model.)

To all whom it may concern:

Be it known that we, HENRY CALKINS and SAMUEL H. BUNTEN, citizens of the United States of America, residing at Bradshaw, in the county of York and State of Nebraska, have invented certain new and useful Improvements in Washing-Machines; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Our invention relates to certain new and useful improvements in reciprocating washing-machines; and it consists in the construction and combination of the parts, as will be hereinafter more fully set forth, and specifically pointed out in the claims.

In the accompanying drawings, which illustrate our invention, Figure 1 is a perspective view. Fig. 2 is a sectional view, and Fig. 3 a detail perspective view.

A represents the body of the washing-machine, which consists of side pieces, A' A', which are connected to each other at their ends by inclined cross-pieces *a a*, and a vertical cross-piece, *a'*. These side pieces have also attached to their lower edges, which are curved as shown, a metallic bottom, *b*, above which is secured a series of slats, *b'*, which are located a slight distance above the metallic bottom, so that the sediment which collects in the operation of washing the clothes will settle below said slats and may be easily removed through the opening *b''* in the lower edge of one of the side pieces, A'.

The body portion A of the washing-machine is supported by legs B, which are rigidly attached to the side pieces, and are connected to each other by the cross-bars B', which are located immediately under the metallic bottom. These cross-bars, besides bracing the legs, also serve as a support for said bottom.

The inclined cross-pieces *a a* are securely attached to the side pieces, and will prevent the water splashing so as to fall outside of the tub, and one of these inclined cross-pieces, in connection with the vertical cross-piece *a'*, will form a convenient receptacle for the soap. The

opposite inclined cross-piece is provided near the side pieces with metallic straps *c c*, the upper ends of which are bent upon themselves, so as to form a bearing for the cross-bar C, which is attached to the cover and is then bent inwardly, so as to embrace the journals of the rubber. The upper edges of the side pieces, A', are each provided with recesses *d*, which are provided with grooves for the reception of the ends of round metallic staples D, the upper ends of said staples entering a recess, *d'*, in the side pieces, D', of the cover. Through each of these staples pass journals *e*, the inner ends of which are bent at right angles and attached to the side pieces of the rubber. One of the journals is bent upwardly and outwardly, so as to form a handle, D'', for reciprocating the rubber.

It will be readily seen by this construction that the staples which form the journals for the rolls *e* will not come in contact with the clothes and soil the same after they have been washed. The ends of the rod C are looped upon the journals *e*, and its straight portion at the rear of the cover is secured to said cover by means of staples *f*. The pivotal point of this bar is in such a position in relation to the recesses *d d'* that the reciprocating rubber will be permitted to raise or lower, according to the quantity of clothing placed in the tub. The bar C is secured to the body portion or tub of the washing-machine by the curved ends of the loops *e*, which are bent half-way round the bar C, so that said bar can be moved therefrom by depressing said bar.

To the cross-bar *a*, between the loops *c c*, is attached a turn-button, *g*, the upper inner edge of which is recessed, and said button is for the purpose of holding the cross-bar C in contact with the loops. This turn-button may be turned downward, as shown in dotted lines, so that the bar may be removed from the loops.

To the side pieces, A' A', of the tub are attached loops *h*, for the reception of the ends of the bars *h'* of a tub-stand, H, said side bars being connected to each other by a series of cross-bars, as shown. To the outer cross-bar, *i*, are attached pivoted supports *i'*, which may be folded parallel with said bar. The lower edges of the side bars, *h'*, are provided with notches which engage with the lower edges of

the loops *h*, and to insert or remove said bars from the loops it is only necessary to raise the inner end of the tub-stand when the bars may be inserted or removed, and when said bars assume a horizontal position they will be securely attached to the side pieces.

The cross-bar *a'* is provided near its center with a pivoted button, *h*, which is recessed, and said button is adapted to be turned over upon the edge of an ordinary wash-tub, so as to retain the tub in position.

It will be seen from the foregoing that when the cover is raised, as shown in Fig. 2, the drippings from said cover and the reciprocating rubber will flow into the tub, and that when desired the cover may be folded back and will rest upon the turn-button *g*. To remove the cover it is only necessary to turn the button *g* to the position shown in dotted lines, when the bar *C*, which secures the rubber and cover to each other, may be detached from the loop *c*, which holds said bar to the body portion.

We claim—

1. In a reciprocating washing-machine, a cover and rubber secured to each other and detachably connected to the body portion of the machine, said body portion and cover having vertical recesses in the edges of its side pieces, and staples secured within the recesses of the cover, said staples depending therefrom, so as to enter the recess in the side pieces of the body portion, the parts being organized substantially as shown and for the purpose set forth.

2. In a washing-machine, the body portion having side pieces provided with vertical recesses which are grooved in their inner edges, in combination with the hinged cover having similarly-grooved recesses and staples secured within said recesses, and the reciprocating rubber having journals which pass through the staples, the parts being organized substantially as shown.

3. In a washing-machine, the body portion *A*, provided with loops *c c*, in combination with the hinged cover and reciprocating rubber, the bail *C*, engaging with the loops, and a pivoted button, *g*, substantially as shown and for the purpose set forth.

4. In a washing-machine, the body portion *A*, with vertical recesses *d*, and loops *c c*, which project above the upper edge of the same, in combination with a detachable cover provided with recesses *d'*, and a reciprocating rubber, a bail, *C*, pivoted to the cover and embracing the journals of the rubber, depending staples *D*, secured to the cover, and button *g*, engaging with the bail, the parts being organized substantially as shown and described.

In testimony whereof we affix our signatures in presence of two witnesses.

HENRY CALKINS.
SAMUEL HARPER BUNTEN.

Witnesses:

J. S. GRAY,
J. H. TILDEN.