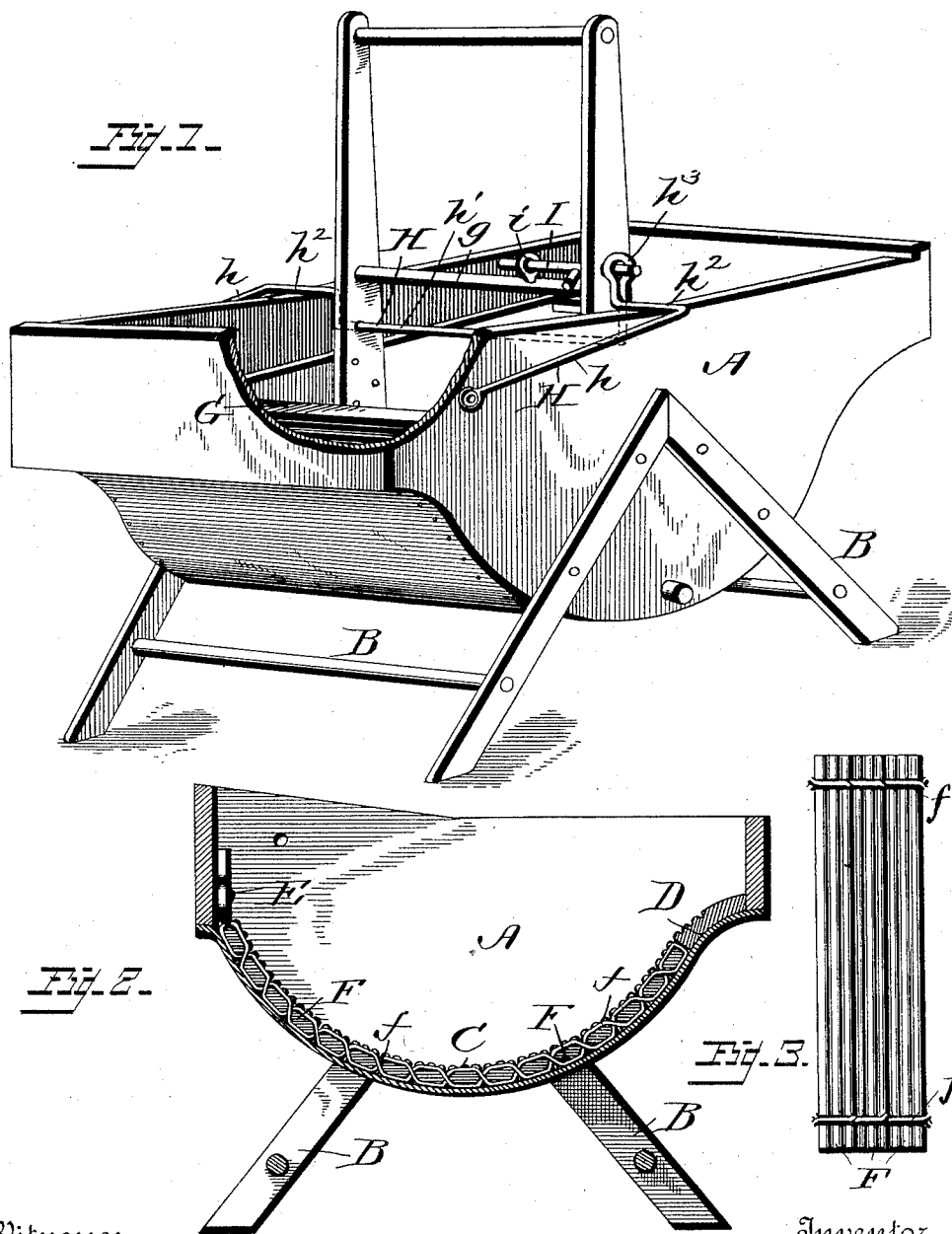


(No Model.)

A. H. SHAMBAUGH.
WASHING MACHINE.

No. 477,073.

Patented June 14, 1892.



Witnesses

Albert Spenden.
Van Burin Hillyard.

Inventor

Alexander H. Shambaugh,

By his Attorneys

Robt. H. Sacey

UNITED STATES PATENT OFFICE.

ALEXANDER H. SHAMBAUGH, OF AVILLA, INDIANA, ASSIGNOR OF ONE-HALF
TO ISAAC SHAMBAUGH, OF SAME PLACE.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 477,073, dated June 14, 1892.

Application filed September 28, 1891. Serial No. 407,054. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER H. SHAMBAUGH, a citizen of the United States, residing at Avilla, in the county of Noble and State of Indiana, have invented certain new and useful Improvements in Washing-Machines; and I 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.

This invention relates to washing-machines, and has for its object to provide a simple and efficient means for locking a vibrating rubber to the bail on which it is mounted.

The improvement consists of the novel features and the peculiar construction and combination of the parts, which will be hereinafter more fully described and claimed, and which are shown in the annexed drawings, in which—

Figure 1 is a perspective view, parts being broken away, of a washing-machine embodying my invention. Fig. 2 is a longitudinal section of the suds-box passing just inside the closed end of the vibrating rubber. Fig. 3 is a plan view of a portion of the removable rubber.

The suds-box A is of well-known construction and arrangement and is supported on the leg-sections B, which are secured to the sides of the said suds-box. The bottom of the suds-box is of sheet-metal, preferably of zinc, and forms a support for the stationary rubber C, which is removably inserted in the suds-box and is held therein by having one end extending beneath a cleat D at one end of the suds-box and a cam-turn button E at the other end of the said suds-box, which engages with the opposite end of the said rubber C. This rubber is composed of a series of slats F, which are longitudinally ribbed or corrugated on their upper faces and which are constructed to have their edges in abutting relation. Each of the slats is provided with transverse kerfs on both sides near each end to receive the wires *f*, which bind the slats together. Two of these wires *f* are provided for each end of the rubber, and the slats are bound together by crossing the

wires from one side to the other in front of each slat as the same is bound in. These wires, being embedded in the slats, offer no projecting joint to engage with and tear the clothing in process of washing and also hold the several slats in their relative position.

The vibrating rubber G is of usual construction, and its working face is of corrugated metal and is mounted on a swinging bail H, so as to adapt itself to the bulk of clothing in the suds-box and be swung back out of the way in the ordinary manner when placing clothes in or removing them from the suds-box. The bail comprises two arms *h*, which are pivotally connected at their outer ends to the sides of the suds-box, a straight portion *h'*, intermediate of the arms *h* and on which the rubber G is mounted, crank portions *h²*, connecting the ends of the straight portions *h'* with the arms *h*, and an extended loop *h³*, which projects for a short distance parallel with one of the handles of the rubber G. The locking-bolt I is mounted on a cross-bar *g* of the rubber G and is constructed to slide through the handles of the rubber G, contiguous to the extended loop *h³* and through an eye *i* on the said cross-bar. When it is desired to lock the rubber G to the bail H, the bolt I is projected beyond the handle of the said rubber and engaged with the extended loop *h³*, as shown most clearly in Fig. 1.

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

1. In a washing-machine, the combination, with a suds-box and a swinging bail having an extended loop, as *h³*, of a vibrating rubber mounted on the said bail and a locking-bolt carried by the said rubber and constructed to engage with the said extended loop and lock the rubber and bail together, substantially as set forth.

2. In a washing-machine, the combination, with the suds-box and a vibrating rubber, of a swinging bail consisting of the arms *h*, which are pivoted to the sides of the suds-box, a straight portion *h'*, on which the said rubber is mounted, crank portions *h²*, connecting

the parts h with the ends of the part h' , and
the extended loop h^3 , and the locking-bolt I,
mounted on a cross-bar of the rubber and
adapted to be projected through a handle of
5 the said rubber and engaged with the said
extended loop h^3 , substantially as and for the
purpose described.

In testimony whereof I affix my signature in
presence of two witnesses.

ALEXANDER H. SHAMBAUGH.

Witnesses:

MICHAEL DOLAN,
DANIEL PILGRIM.