

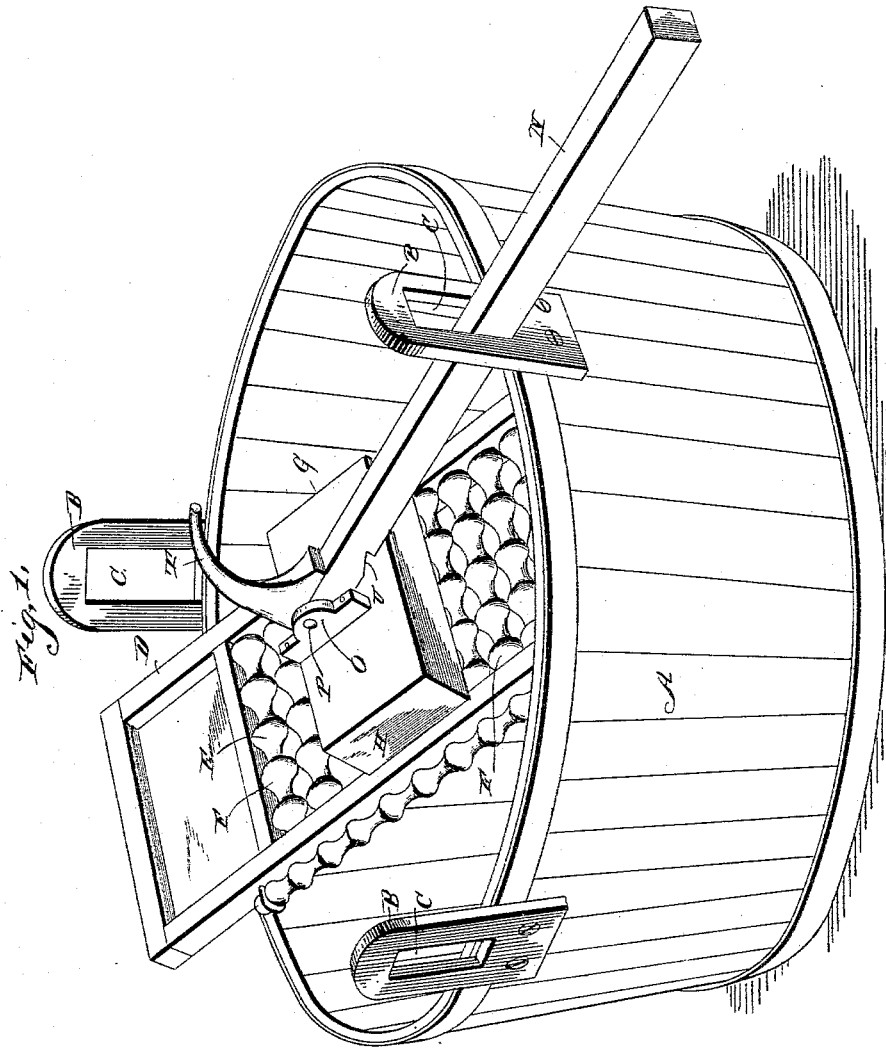
(No Model.)

2 Sheets—Sheet 1.

T. THORN.
WASHING MACHINE.

No. 384,298.

Patented June 12, 1888.



Witnesses.

W. B. Taylor,

E. Y. Sigg,

Inventor,
Theodore Thorn.

By *his* Attorneys,

C. A. Howells.

(No Model.)

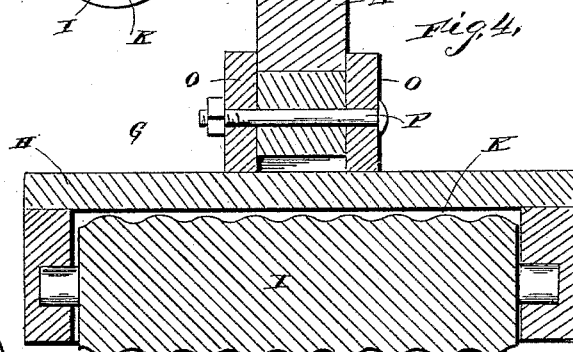
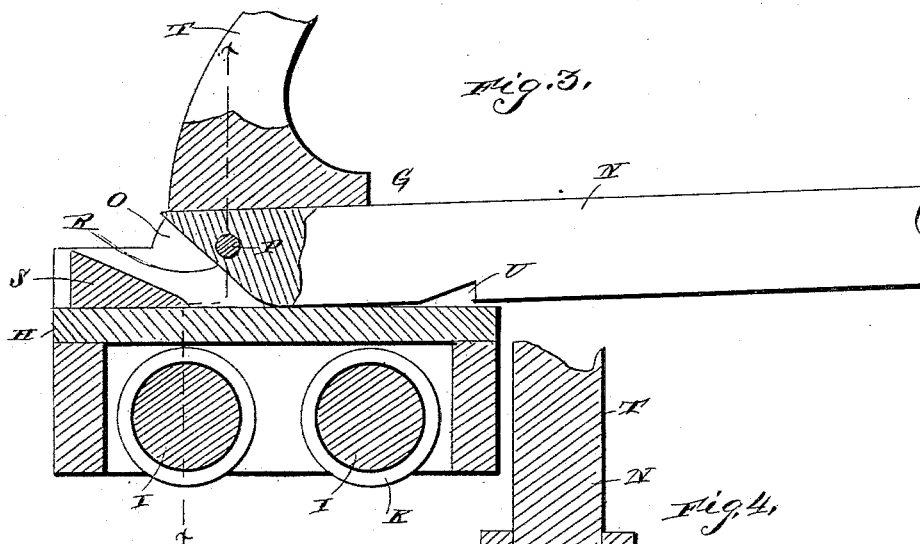
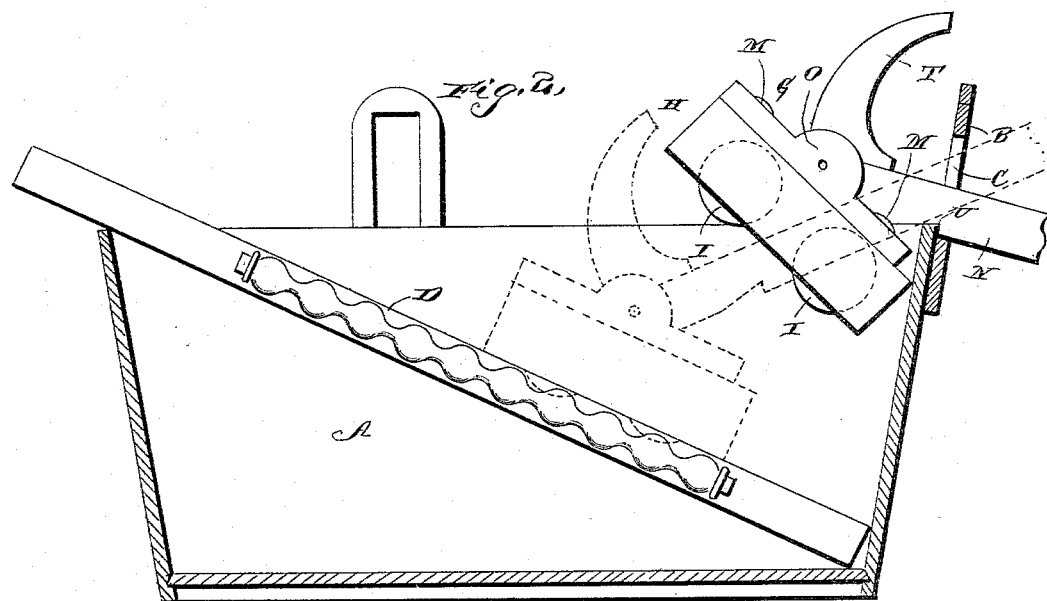
2 Sheets—Sheet 2.

T. THORN.

WASHING MACHINE.

No. 384,298.

Patented June 12, 1888.



Witnesses.

W. H. Taylor
E. Y. Siggers

H By *his* Attorneys,

C. Snow & Co.

Inventor,
J. Thorn.

UNITED STATES PATENT OFFICE.

THEODORE THORN, OF ST. CLAIR, PENNSYLVANIA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 384,298, dated June 12, 1888.

Application filed April 21, 1887. Serial No. 235,657. (No model.)

To all whom it may concern:

Be it known that I, THEODORE THORN, a citizen of the United States, residing at St. Clair, in the county of Schuylkill and State of Pennsylvania, have invented a new and useful Improvement in Rubber Washing-Machines, of which the following is a specification.

My invention relates to an improvement in rubber washing-machines; and it consists in the peculiar construction and combination of devices that will be more fully set forth hereinafter, and particularly pointed out in the claims.

This invention is an improvement on the rubber described in my pending application for Letters Patent of the United States, filed January 31, 1887, Serial No. 226,061.

In the drawings, Figure 1 is a perspective view of a washing-machine complete embodying my improvements. Fig. 2 is a side elevation of the same, the tub being shown in vertical section and illustrating the apparatus in a different position. Fig. 3 is a longitudinal sectional view of my improved washer. Fig. 4 is a transverse sectional view of the same on line *x x*, Fig. 3.

A represents a wash-tub of the usual construction, and B represents an ear or standard, which is secured to one side of the tub, at the upper edge thereof, and projects upwardly above the same. In the said ear or standard is a rectangular opening, C.

D represents a wash-board, such as described in my before-mentioned pending application for patent, and is provided with a series of transverse rungs, E, each of which is provided on opposite sides with flutes F, that are arranged in longitudinal series on the wash-board.

G represents the rubber, the construction of which is as follows: A rectangular case or box, H, has its lower side open, and in the said case or box are journaled a pair of rollers, I. The lower sides of the said rollers depend below the lower edges of the box, and the said rollers are provided with transverse series of flutes or scallops K, adapted to fit on the rubbing-surface of the board D. On the upper side of the box or case H is secured a pair of ears, O, which are arranged parallel with each other at the center of the box or case, and are secured thereto by means of screws M.

N represents a guide-bar, which has one end pivoted between ears O, formed on the upper sides of the cleats. A transverse bolt, P, extends through the ears and through the inner end of the guide-bar N, and forms the pivot upon which the guide-bar is adapted to turn. The extreme inner end of the guide-bar is beveled or inclined on its under side, as shown at R.

S represents a wedge-shaped block, which is secured between the ears O, and is arranged at a slight distance beyond the inner end of the guide-bar. A curved or horn-shaped handle, T, is secured on the upper side of the inner end of the guide-bar, and projects upwardly and forward thereon.

The operation of my invention is as follows: The guide-bar N is rectangular in cross-section and of such a size as to enable it to be passed through the opening C in the ear or standard B. The wash-board is placed in the tub in an inclined position, as shown in Figs. 1 and 2, the upper end of the wash-board resting on the upper edge of the tub opposite the ear B. The operator, standing behind the wash-board, grasps the handle T with one hand and causes the rubber to be reciprocated longitudinally on the rubbing-face of the wash-board. The guide-bar N directs the rubber in a straight line and prevents the same from running below the lower edge of the rubbing-surface of the wash-board by reason of the inner beveled end of the guide-bar coming in contact with the upper side of the inclined block S when the rubber reaches the position indicated in dotted lines in Fig. 2.

At a suitable distance from the pivotal bolt P the guide-bar is provided on its under side with a transverse notch, U, which is adapted to engage the lower side of the opening C in the ear B when the rubber is raised from the wash-board and moved to the ear B, and this notch serves to suspend the rubber from the ear B, when desired, in the position shown in solid lines in Fig. 2.

Having thus described my invention, I claim—

1. The combination of the tub having the ear B, provided with opening C, the wash-board, the rubber having the rollers bearing on the wash-board, the guide-arm N, hinged to the rubber and extending and working

loosely through the opening C, and the handle T, projecting upward from the hinged end of arm N, substantially as described.

2. The combination of the tub having the ear B, provided with opening C, the wash-board, the case H, having the rollers bearing on the wash-board, the guide-arm N, hinged to the case and extending through the opening C, said arm having its hinged end inclined upward on its under side at R and provided with the handle T, and the wedge-shaped block S on the upper side of the case H, for the purpose set forth, substantially as described.

3. In a rubber, the combination of the case H, the guide-bar pivoted on the upper side thereof and having its inner end inclined, and the inclined or wedge-shaped block S, adapted to bear under the inner end of the guide-bar, for the purpose set forth, substantially as described.

4. In combination with the tub having the ear B, provided with opening C, the rubber having the rollers to bear on the wash-board,

the guide-arm N, hinged to the rubber and provided with a notch, U, said guide-arm passing and working loosely through the opening C, and its notch engaging the edge of the tub to suspend the rubber when not in use.

5. In combination with the ear B, provided on the tub or suds-box and having the opening C, the wash-board D, the rubber having the rollers to bear on the wash-board, the guide-arm N, hinged to the rubber and passing and working loosely through the opening C, and the curved handle T, attached to the arm N at the hinged end thereof, said handle T being curved forward and upward to be grasped by the hand, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

THEODORE THORN.

Witnesses:

J. C. PURCELL,

W. J. MCCARTHY, Jr.