

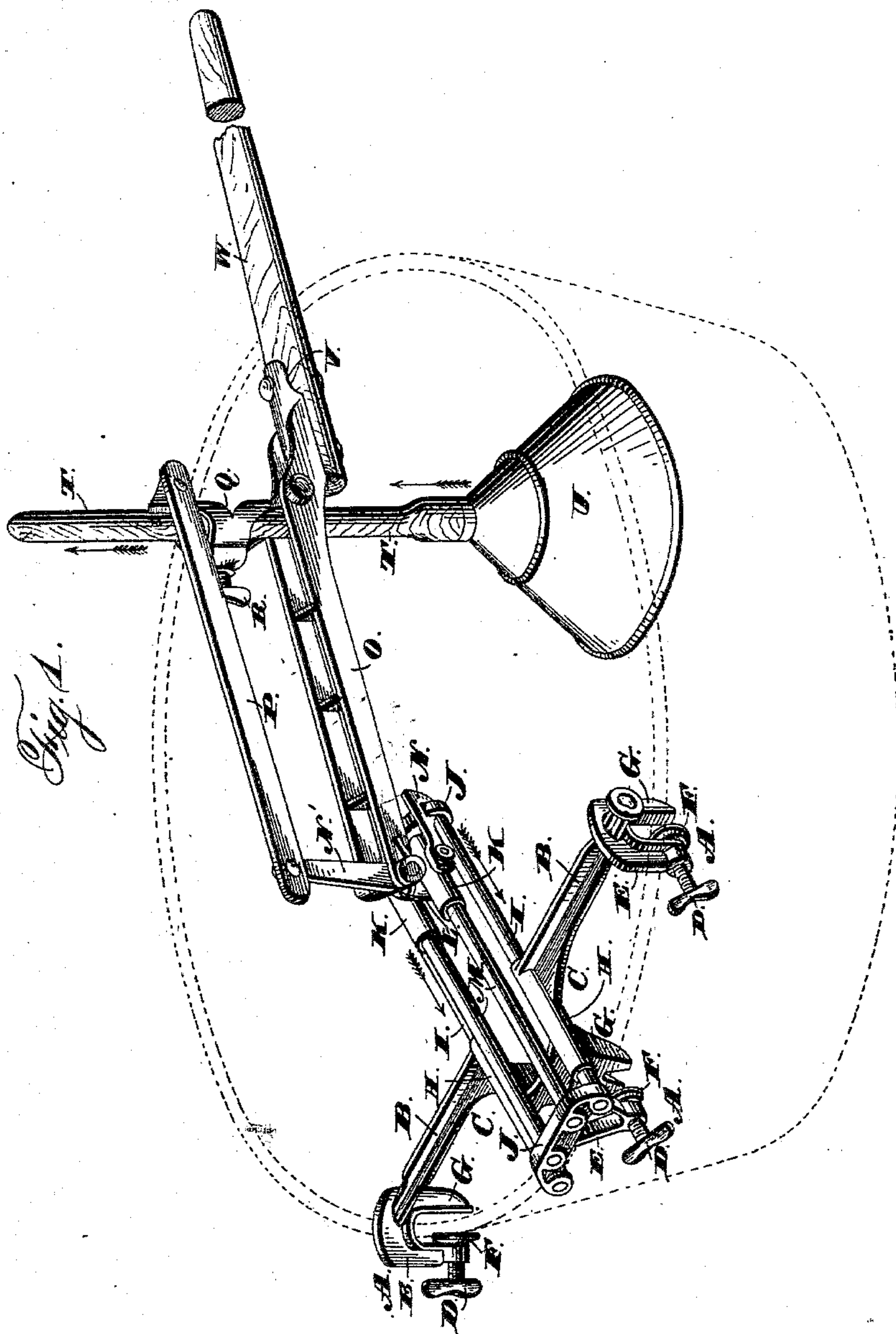
(No Model.)

2 Sheets—Sheet 1.

C. A. DODGE.
CLOTHES WASHER.

No. 280,915.

Patented July 10, 1883.



WITNESSES

Jas. E. Hutchinson.
Geo. W. Seymour

INVENTOR

INVENTOR
Cyrus A. Dodge
By W. A. Symon
Attorney

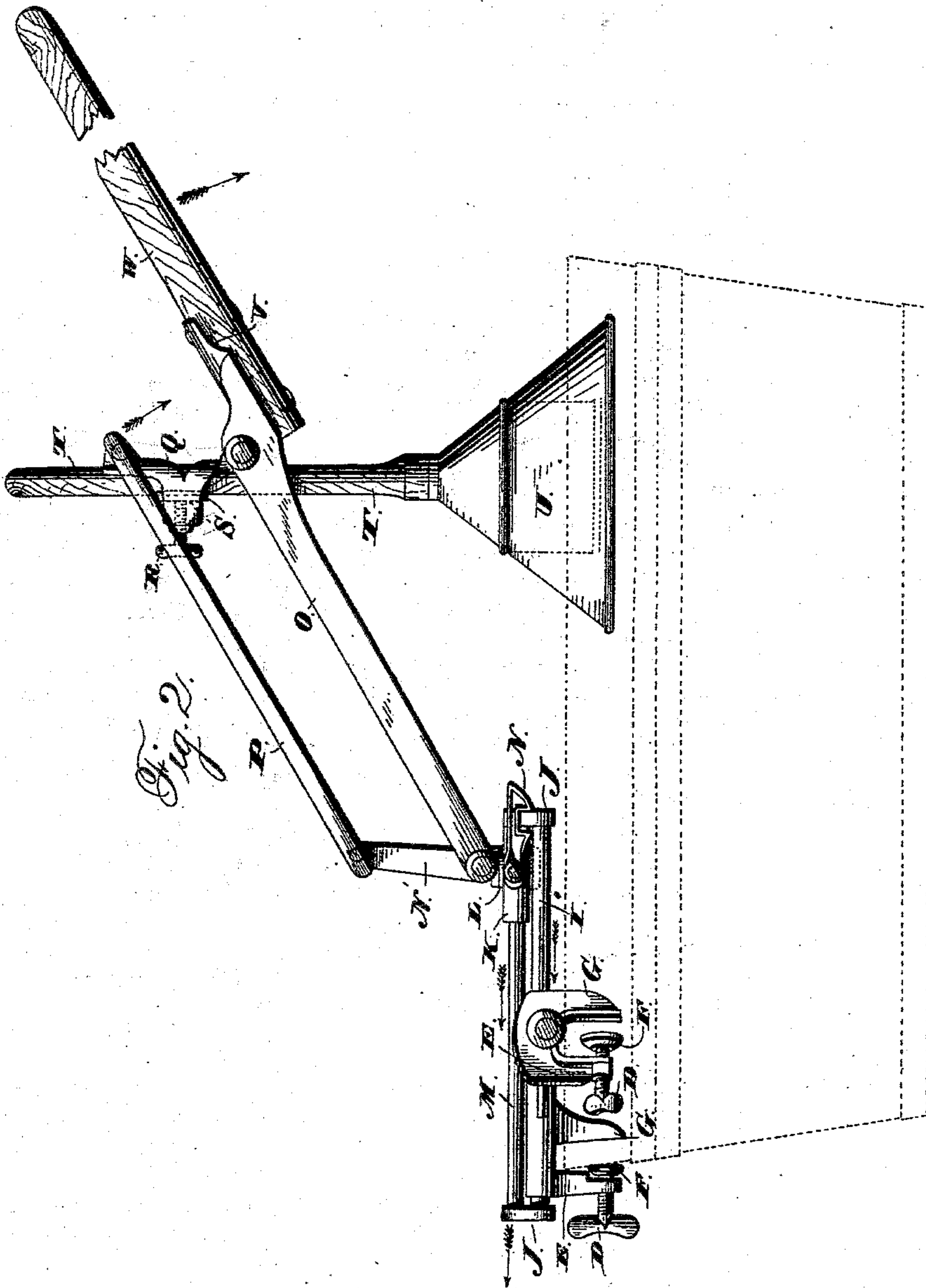
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INVENTOR

Cyrus A. Dodge
By H. A. Seymour
Attorney

UNITED STATES PATENT OFFICE.

CYRUS A. DODGE, OF SYRACUSE, NEW YORK.

CLOTHES-WASHER.

SPECIFICATION forming part of Letters Patent No. 280,915, dated July 10, 1883.

Application filed February 26, 1883. (No model.)

To all whom it may concern:

Be it known that I, C. A. DODGE, of Syracuse, in the county of Onondaga and State of New York, have invented certain new and useful Improvements in Clothes-Washers; 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 pertains to make and use the same.

My invention relates to an improvement in laundry appliances, and more particularly to clothes-washers, the object being to provide a machine of the character indicated which will combine simplicity and cheapness of construction with durability and efficiency in use.

With these objects in view, my invention consists in the combination, with a frame adapted to be attached to the edge of a tub at three or more points located in practically the same horizontal plane, of a sliding bearing mounted in said frame, a staff having a pounder attached to its lower end, and levers connecting the said sliding bearing and staff.

My invention further consists in the combination, with a frame provided with two laterally-extending and with two depending arms, the latter being located between the former, of clamps secured to and adapted to be longitudinally adjusted on the said lateral arms, and a thumb-screw mounted in the outer of the depending arms.

My invention further consists in the combination, with a frame and means for securing it to a tub, said frame being provided with parallel sleeve-bearings, of a slide consisting of two pairs of parallel rods mounted in suitable plates, the outer rods having bearing in the sleeve-bearings, and a sliding fulcrum mounted on the inner rods of the slide.

My invention further consists in the combination, with a frame and means for securing it to a tub, of a reciprocating slide mounted in said frame, a sliding fulcrum mounted on the slide and arranged to be reciprocated independently of or with it, and a latch secured to the fulcrum and adapted to lock it to the slide.

My invention further consists in the combination, with a frame and means for securing it to a tub, of a reciprocating slide mounted in said frame, a sliding fulcrum mounted on the slide, a standard pivoted to the fulcrum,

and a skeleton and an equalizing lever pivoted to the said standard.

My invention further consists in the combination, with a frame and means for securing it to a tub, a standard mounted on said frame, a skeleton and an equalizing lever pivoted to the standard, and a hollow staff-clamp having its upper and lower ends pivotally secured to the equalizing and skeleton levers, respectively.

My invention further consists in the combination, with a frame and means for securing it to a tub, of a standard secured to the frame, a skeleton lever pivoted to the standard, and a handle secured to and offsetting from the outer end of the skeleton lever.

In the accompanying drawings, Figure 1 is a view in perspective of a washing-machine constructed in accordance with my invention, said machine being shown as attached to a tub; and Fig. 2 is a view of the machine in side elevation.

The machine is secured to the tub by means of clamps A, longitudinally adjustable on the laterally-extending arms B of the frame C, and by a thumb-screw, D, mounted in the depending arm E of the said frame, and adapted to clamp the staves of the tub between its disk F and the depending arm G.

The object in adapting the clamps A to be longitudinally adjustable on the arms B is to adapt the machine to be conformed to tubs of different sizes. It will be observed that as the staves of the tubs are engaged at three different and somewhat widely separated points, the strain is equalized and distributed, and no injury results to the tub. Again, in virtue of clamping the machine to the tub at three points, near the upper edge thereof, the device is caused to automatically adjust itself to maintain the pounder in horizontal planes parallel with planes passing through the top and bottom of the tub, and therefore when the pounder is depressed and brought in conjunction with the bottom of the tub, it always strikes it squarely, thus avoiding that wrenching which would result if the pounder struck the bottom of the tub at an angle.

The frame C is provided with sleeve-bearings H, parallel with each other, but forming right angles with the arms B. Parallel rods I, the outer ends of which are united by the

plates J, are journaled in said bearings, in which they have reciprocating movement.

Two sleeves, K, rigidly united by a bearing, L, constitute a sliding fulcrum, which is adapted to be moved to and fro on two parallel rods, M, located between the rods I, and having their outer ends secured to the plates J. The pairs of parallel rods I and M, together with their uniting-plates J, constitute a slide which is actuated in the bearings H according to the motions imparted to the sliding fulcrum, the same being adapted to move with or independently of the said slide.

A latch, N, pivotally secured to one of the sleeves K is designed to engage with the inner of the plates J, and move the slide outwardly beyond the range of the path taken by the pounder in its upward stroke.

N' is a standard mounted in the bearing L, and adapted to be rotated on a vertical axis therein. The skeleton lever O is pivotally secured to the lower end of the said standard, while the equalizing-lever P is attached to the upper end thereof, the outer ends of the said levers being united by the hollow staff-clamp Q, which is provided with a thumb-screw, R, the same terminating in a concaved plate, S, located within the clamp and adapted to impinge on the staff, to the lower end of which the pounder U is secured. The extreme outer end of the skeleton lever is provided with a concaved face, V, to which the handle W is secured, thus offsetting it from the said lever, the object being to prevent the end of the handle from engaging with the staff.

It is apparent that my invention is not confined to the exact construction herein shown and described. The frame, for instance, may be indefinitely modified without departing from the spirit of my invention, so long as it retains its adaptation to be secured to the edge of the tub at three or more points located in practically the same horizontal plane, and to support the bearings for the rods I, which may be substituted by flat bars of cast or wrought iron, if desired.

Instead of adapting the device to be attached to tubs of different sizes by adjusting the outer clamp longitudinally on the frame, the central clamp may be adapted to be adjusted laterally and effect the same result. Again, the depending arms herein shown may be dispensed with and their place supplied by a

suitable clamp, and, if desired, one instead of two pairs of rods may be employed in the construction of the sliding bearing. I would therefore have it understood that I do not limit myself to the exact construction shown and described, but hold myself at liberty to make such slight changes and alterations as fairly fall within the spirit and scope of my invention.

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

1. In a clothes-washer, the combination, with a frame provided with laterally-extending and depending arms, of a clamp secured to the depending arm, and clamps secured to said lateral arms, substantially as described, so as to slide thereon for adjustment, substantially as set forth.

2. In a clothes-washer, the combination, with a frame and devices for securing it to a tub, said frame being provided with parallel sleeve-bearings, of a slide consisting of two pairs of parallel rods mounted in end plates, the outer rods having bearing in the sleeve-bearings, and a fulcrum-block fitted to slide upon the inner rods, and a lever pivoted to said fulcrum-block, substantially as set forth.

3. In a clothes-washer, the combination, with a frame and devices for securing it to a tub, of a reciprocating slide mounted in said frame, a sliding fulcrum-block mounted in the slide, a latch secured to the fulcrum-block to lock it to the slide, a lever pivoted to said fulcrum-block, and the pounder-staff, substantially as set forth.

4. In a clothes-washer, the combination, with the pounder, of a frame and means for securing it to a tub, a reciprocating slide mounted in said frame, a sliding fulcrum-block mounted on the slide, a standard pivoted to the fulcrum-block, a skeleton operating-lever and an equalizing-lever pivoted to the said standard, and a pounder and staff, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

CYRUS A. DODGE.

Witnesses:

CHARLES D. HOWARD,
R. A. SMITH.