

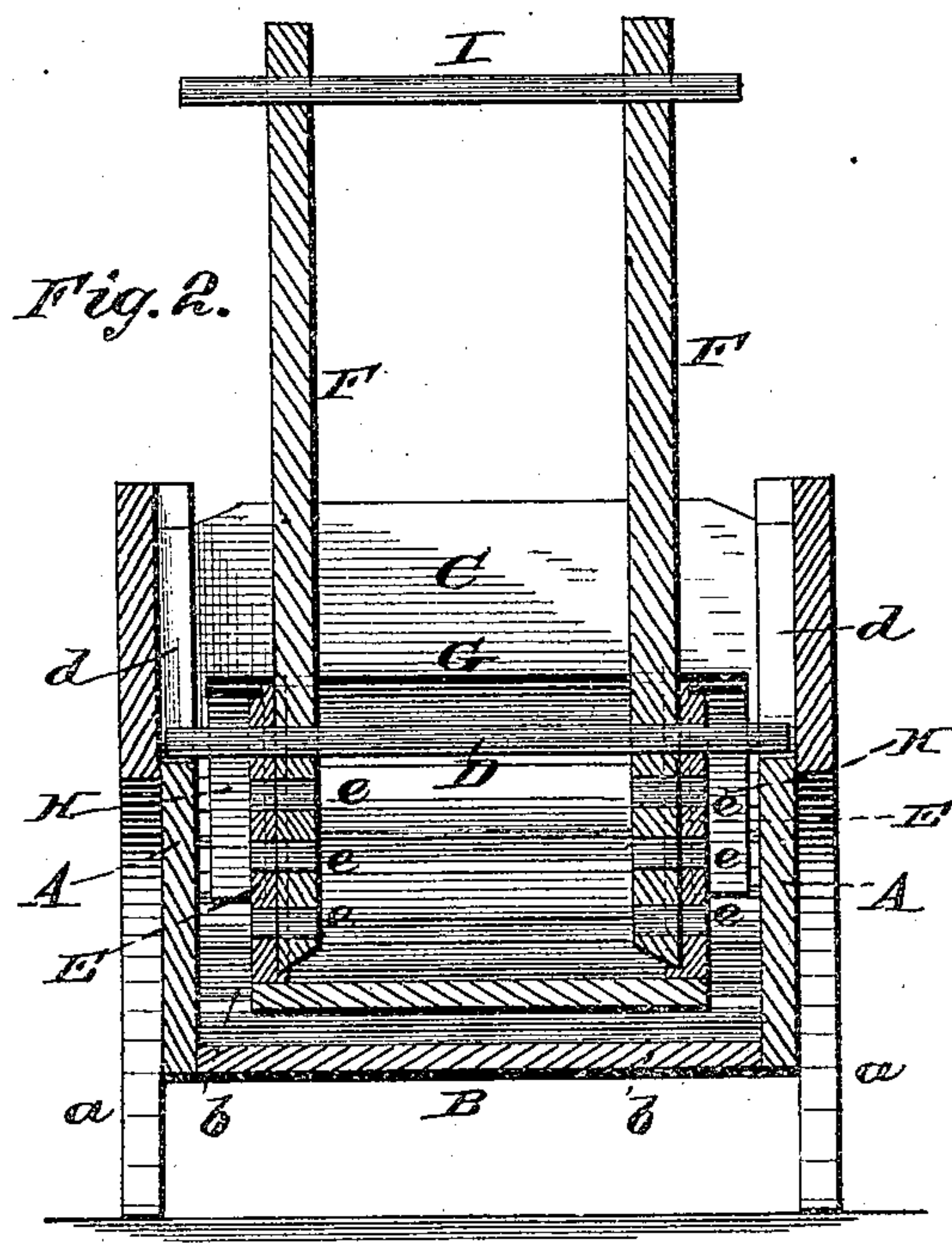
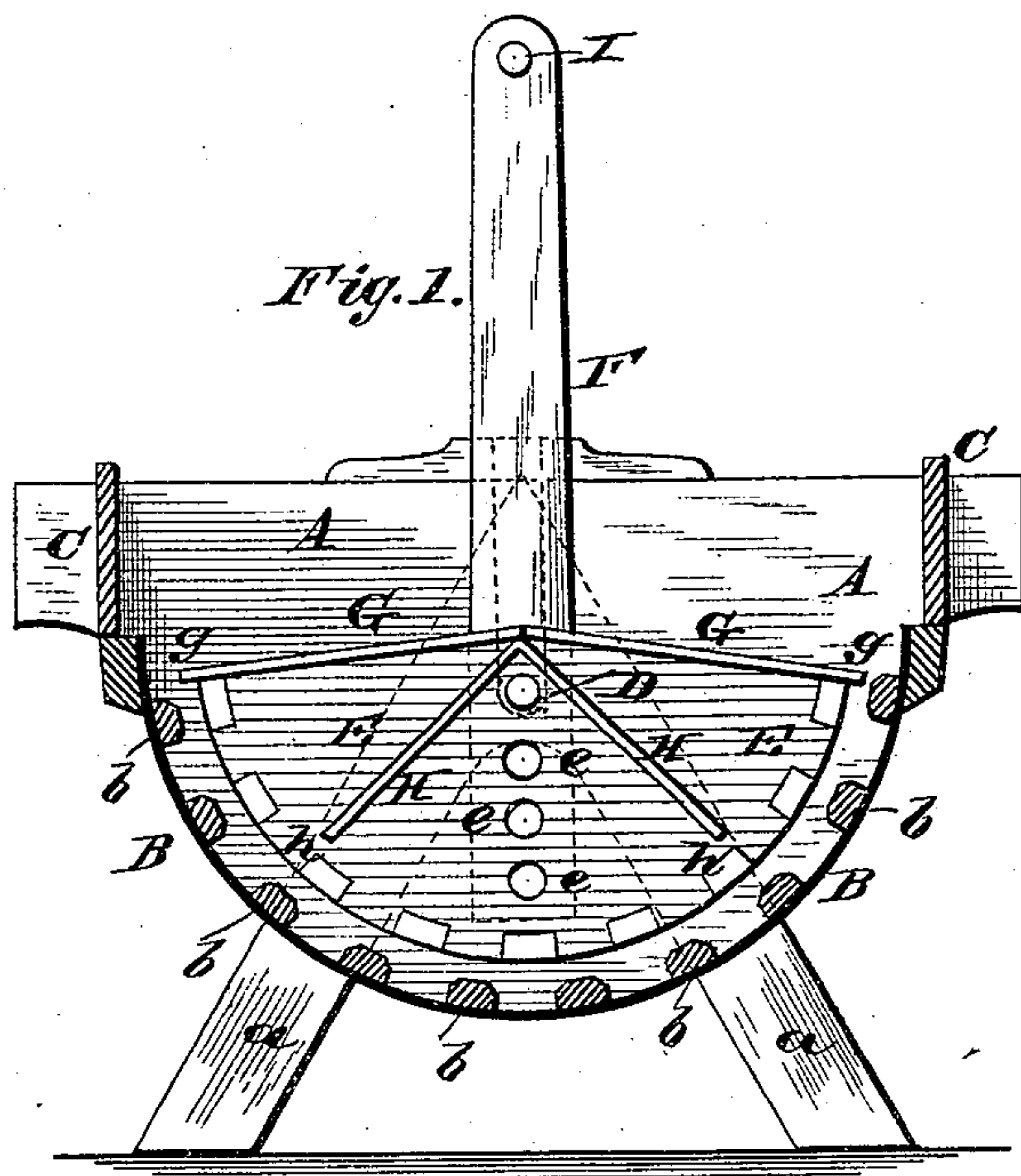
(No Model.)

J. H. WOODBERRY, J. N. McCOLLOM & T. BILDERBACK.

WASHING MACHINE.

No. 246,268.

Patented Aug. 23, 1881.



WITNESSES

Ad. G. Dietrich.  
P. C. Dietrich.

By Their Attorneys

Louis Bagger

INVENTOR

INVENTOR  
John H. Woodberry

Jasper N. McCallum

Thomas Bildenbach



# UNITED STATES PATENT OFFICE.

JOHN H. WOODBERRY, JASPER N. MCCOLLOM, AND THOMAS BILDERBACK,  
OF MULBERRY GROVE, KANSAS.

## WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 246,268, dated August 23, 1881.

Application filed June 9, 1881. (No model.)

*To all whom it may concern:*

Be it known that we, JOHN H. WOODBERRY, JASPER N. MCCOLLOM, and THOMAS BILDERBACK, all of Mulberry Grove, in the county of Crawford and State of Kansas, have invented certain new and useful Improvements in Washing-Machines; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a longitudinal vertical section of our improved washing-machine, and Fig. 2 is a transverse vertical section of the same.

Similar letters of reference indicate corresponding parts in both the figures.

Our invention has relation to reciprocating-rubber washing-machines; and it consists in the improvements hereinafter more fully described, and particularly pointed out in the claims.

In the annexed drawings, A is the suds-box or concave, which has a bottom, B, of zinc or galvanized sheet-iron, vertical splash-boards C C, one at each end, stationary rubbing-slats b b, and legs or supports a a.

The reciprocating rubber, which is of the usual shape to fit the concave, has a removable transverse shaft, D, the ends of which project on both sides, so as to form trunnions, which ride in vertical recessed bearings d d in the sides of the suds-box, thus permitting the rubber to adjust itself vertically according to the quantity of clothes in the box.

The sides E of the rubber have each a series of apertures, e e, arranged in a vertical line one above another, for the insertion of the adjustable trunnion-shaft D, so as to regulate the stroke of the rubber and its operating-arms F F, which are united at their upper end by a cross-bar, I, forming the handle. The arms F F extend down into the body of the rubber, where they are secured upon its sides E E, and are in like manner as these perforated in a line with the apertures e e, for the insertion of the adjustable trunnion-shaft D.

The top of the rubber is covered with two sheets or leaves of zinc, G G, which extend a little out over the rubber at both ends, as shown as g g in Fig. 1, and inside of the rubber, between its sides E E, are placed two shields or deflectors, H H, set at an angle to one another and to the top sheets, G, of about forty-five degrees or more or less. These deflectors do not extend all the way down to the bottom of the rubber, but leave an open space, h, between their lower edge and the slats which constitute the bottom part of the rubber.

When the rubber is rocked or reciprocated in operating the machine the deflectors H H and top shields, G, with their projecting ledges g, will thoroughly agitate the suds and water in the box, thus greatly facilitating the cleansing of the clothes as they are being rubbed by causing a constant splashing and circulation of the suds. At the same time injury to the clothes is prevented, as the deflectors or agitators H do not come into contact with them, the slats of the rubber acting as a guard or protector.

Having thus described our invention, we claim and desire to secure by Letters Patent of the United States—

1. In a reciprocating-rubber washing-machine, a rubber provided with the top shields or covers, G G, having projecting ledges g g, as shown and set forth.

2. In a reciprocating-rubber washing-machine, a rubber provided with the top shields or covers, G G, having projecting ledges g g and inside deflectors or wings, H H, constructed and arranged substantially as and for the purpose herein shown and specified.

In testimony that we claim the foregoing as our own we have hereunto affixed our signatures in presence of two witnesses.

JOHN H. WOODBERRY.  
JASPER N. MCCOLLOM.  
THOMAS BILDERBACK.

Witnesses:

THOS. W. WELLS,  
JAMES T. BRIDGENS.