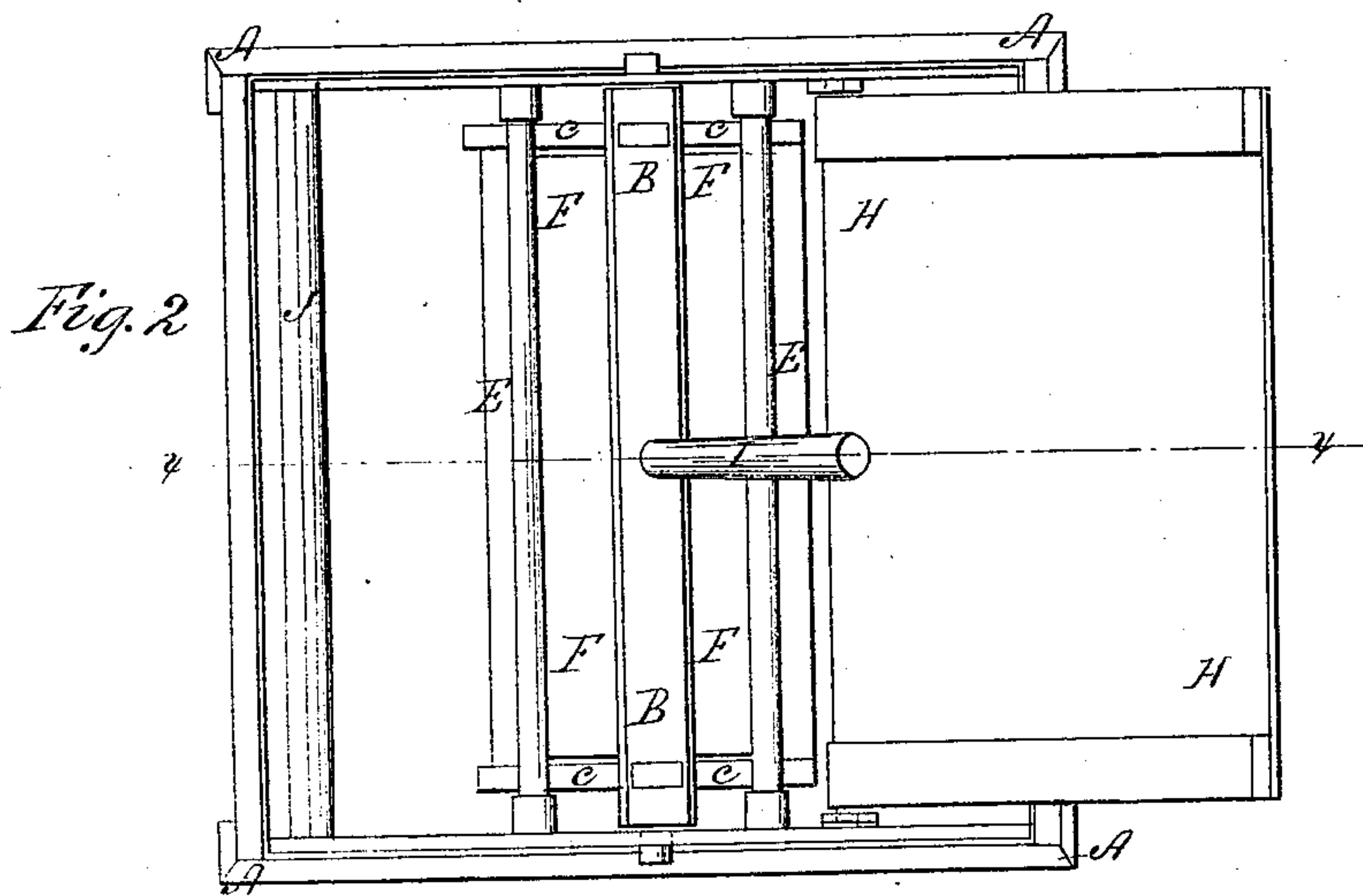
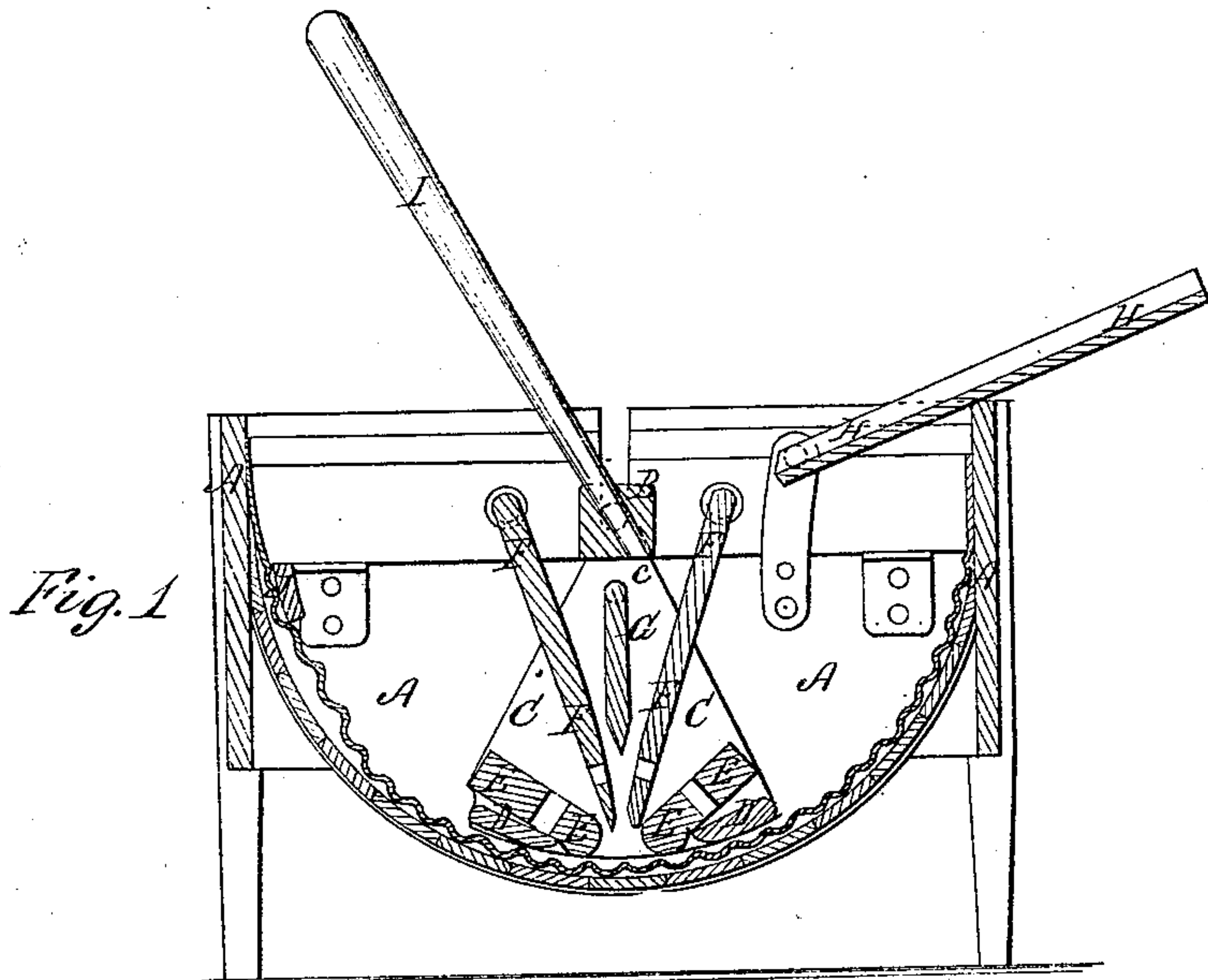


*A. F. Kuhlman,*

*Washing Machine,*

*N<sup>o</sup> 68, 211,*

*Patented Aug. 27, 1867*



Witnesses;  
 Thos. Fusch,  
 Wm. Frewin

Inventor;  
A. T. Kuhlman.  
Per Munnell  
Attorney.

# United States Patent Office.

ADOLPH F. KUHLMAN, OF DUBUQUE, IOWA.

*Letters Patent No. 68,211, dated August 27, 1867.*

## IMPROVED WASHING MACHINE.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, ADOLPH F. KUHLMAN, of Dubuque, in the county of Dubuque, and State of Iowa, have invented a new and useful Improvement in Washing Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a vertical cross-section of my improved machine, taken through the line *x x*, fig. 2.

Figure 2 is a top view of the same.

Similar letters of reference indicate like parts.

My invention has for its object to so improve the construction of my washing machine patented August 7, 1866, and numbered 56,955, as to make it simpler in construction and more effective in operation; and it consists in the combination of the smooth rubbers and inclined rubber and feed-boards with the vibrating arms or plates and shaft; in the combination of the pivoted stuffers with the feed-boards, vibrating arms, and tub; and in the combination of a pivoted guard-board, or equivalent, with the stuffers and with the vibrating frame; the whole being constructed and arranged as hereinafter more fully described.

A is the box or tub, the bottom of which may be made of sheet iron or other suitable material; is made semi-cylindrical in its general form, and is lined with corrugated sheet zinc or other suitable material for a rubber-board. The forward side of the bottom departs a little from the circle and passes up in a direction a little nearer a straight line than the arc of a circle would be. B is a cylinder or shaft, the ends of which are pivoted to the ends of the tub A, and which has arms or plates C attached to it near its ends. D are smooth rubbers, attached to the lower curved edges of the plates C in such a way as to leave a space between their inner edges, as shown in fig. 1. E are feed and rubber-boards, the ends of which are attached to the vibrating plates C so that the said boards may stand in an inclined position, with their lower edges projecting between the inner edges of the rubbers D, leaving a space between their own lower edges for the passage of the clothes. The lower edges of the inclined feed-boards E are rounded off, as shown in fig. 1, so as to act as rubbers upon the clothes; and the said boards are also perforated, to allow the water to have a free passage through them as the machine is being operated. F are the stuffers, the ends of which are pivoted to the ends or frame of the tub, and which hang down, with their lower edges upon or near the inclined feed-boards E. The stuffer-boards F are perforated in their lower parts for the free passage of the water. As the rubber-frame is vibrated the lower edges of the stuffers F are forced into the space between the lower edges of the inclined feed-boards E, so as to force the clothes through to be acted upon by the rubbers. G is a bar or board, the ends of which, near its upper edge, are pivoted to the plates or arms C between the stuffers F, to prevent the clothes from passing too fast into the feed-box. The form of the bar G is immaterial; a cylinder may be used if desired. H is the feed-apron upon which the clothes to be washed are placed, and by which they are guided into the feed-box. I is the handle or lever by which the machine is operated, and which is connected with the shaft B. In using the machine the clothes will always pass out at the front of the rubbers, and at each vibration they will be forced up against the longitudinal bar J and the dirty water squeezed out, and each lot of clothes may be left in the front part of the tub to be thus acted upon while the next lot is passing through the feed-box and rubbers.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the smooth rubbers D and inclined rubbing and feed-boards E with the vibrating arms or plates C and shaft B, substantially as herein shown and described, and for the purpose set forth.
2. The pivoted stuffers F, in combination with the inclined feed-boards E, vibrating arms or plates C and tub A, substantially as herein shown and described, and for the purpose set forth.
3. The combination of the pivoted guard-board G, or equivalent, with the stuffers E and vibrating arms or plates C, substantially as herein shown and described, and for the purpose set forth.

ADOLPH F. KUHLMAN.

Witnesses:

CHRISTIAN WULLWEBER,  
WM. SCHODDE.