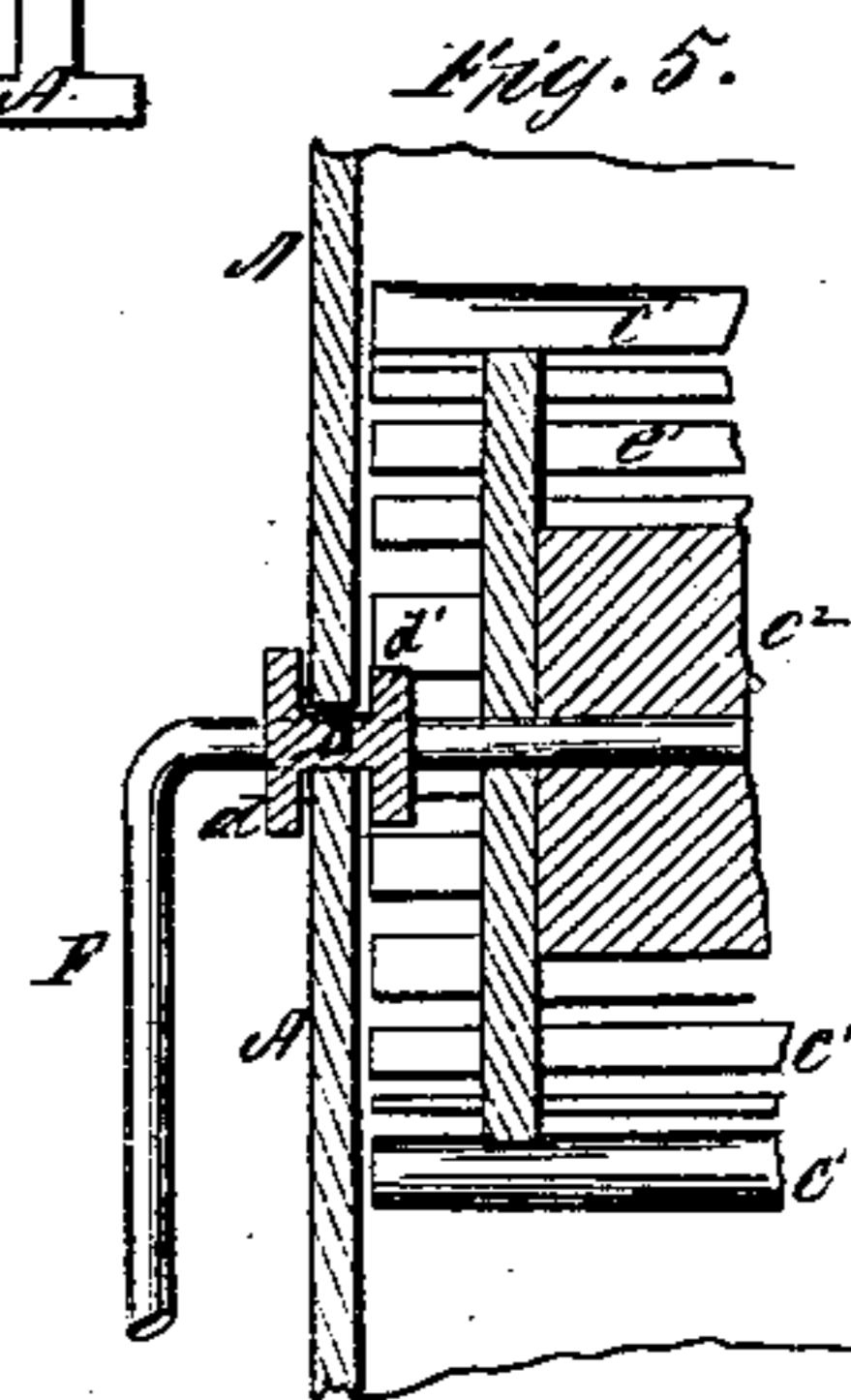
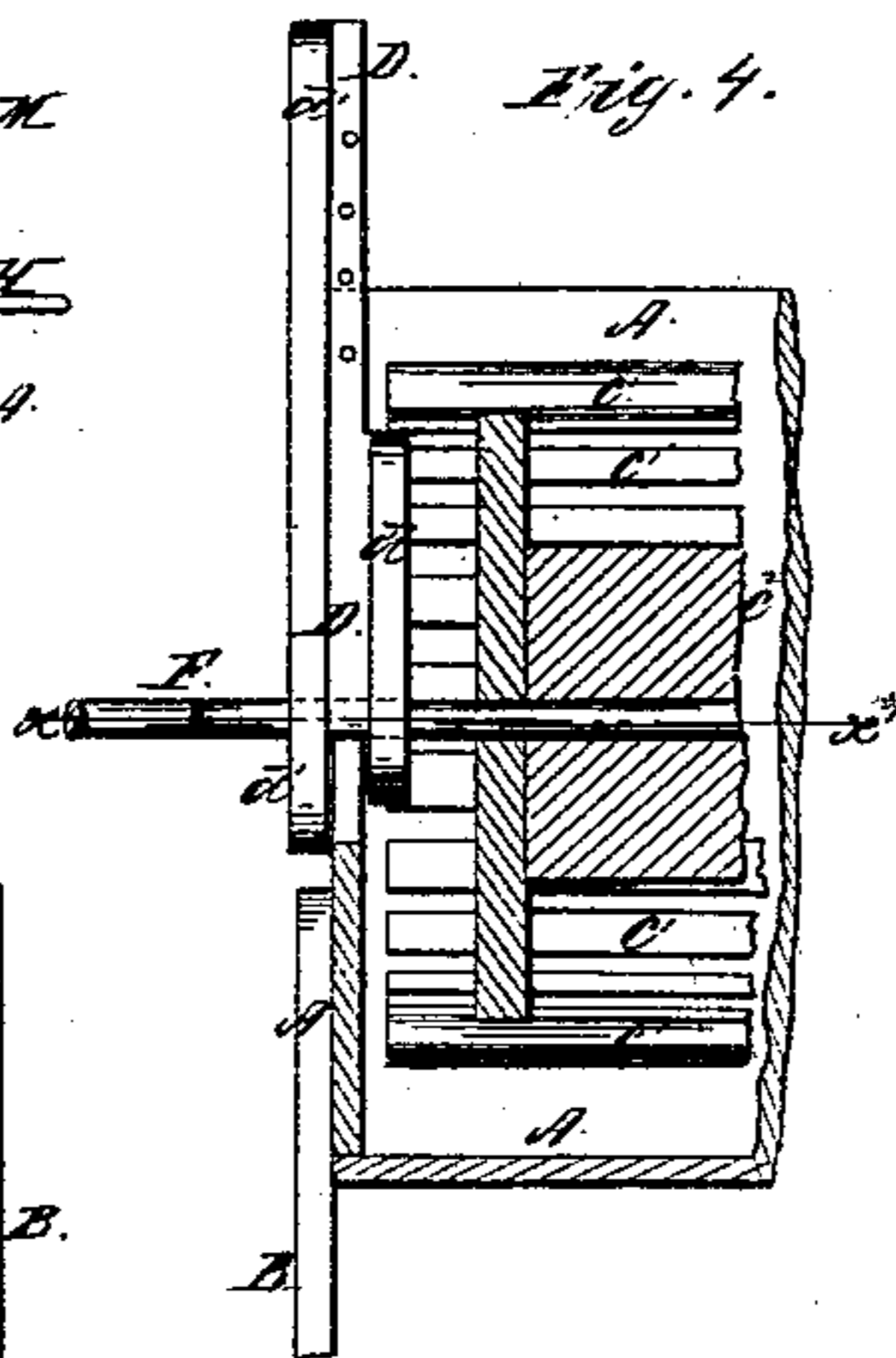
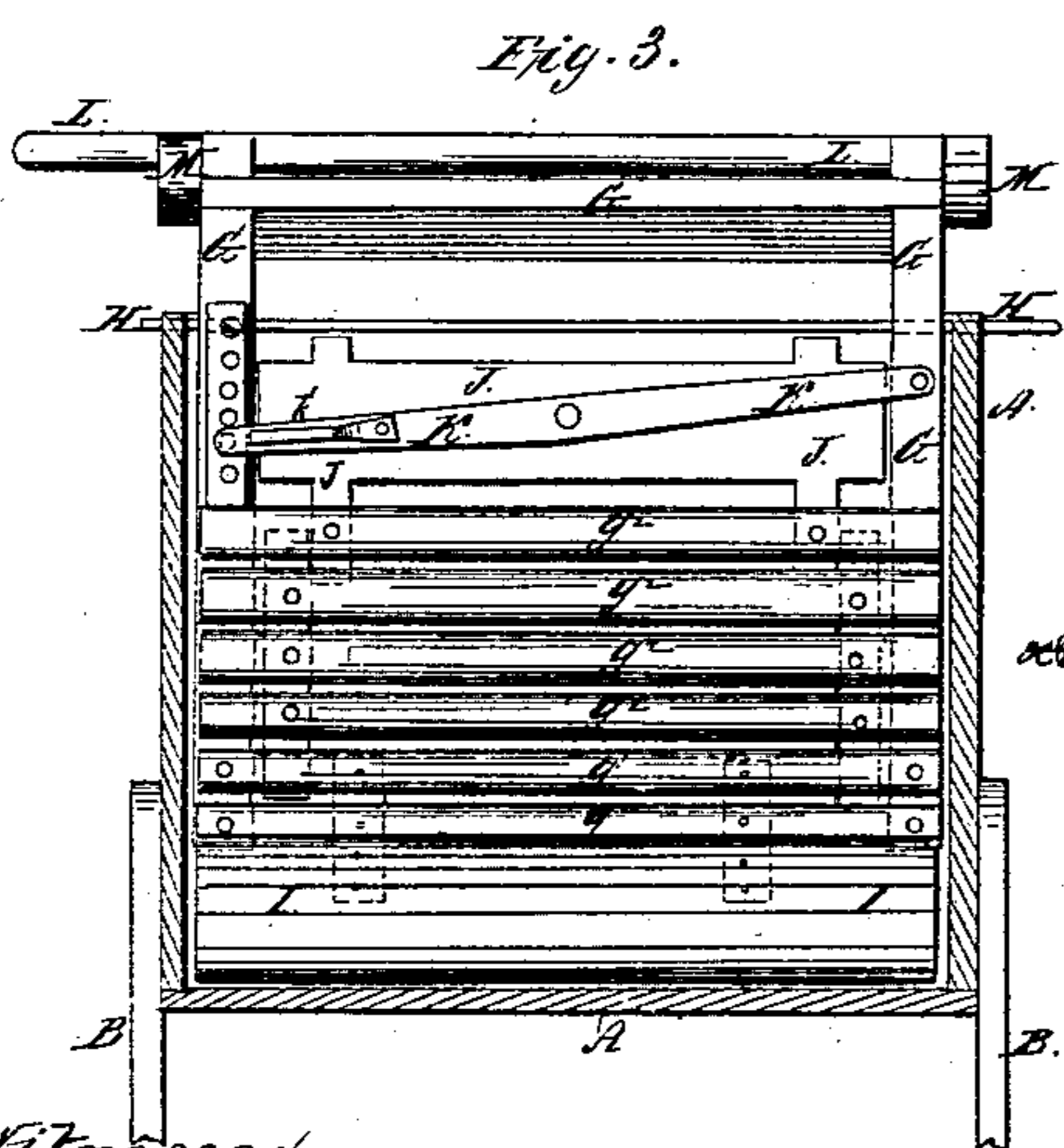
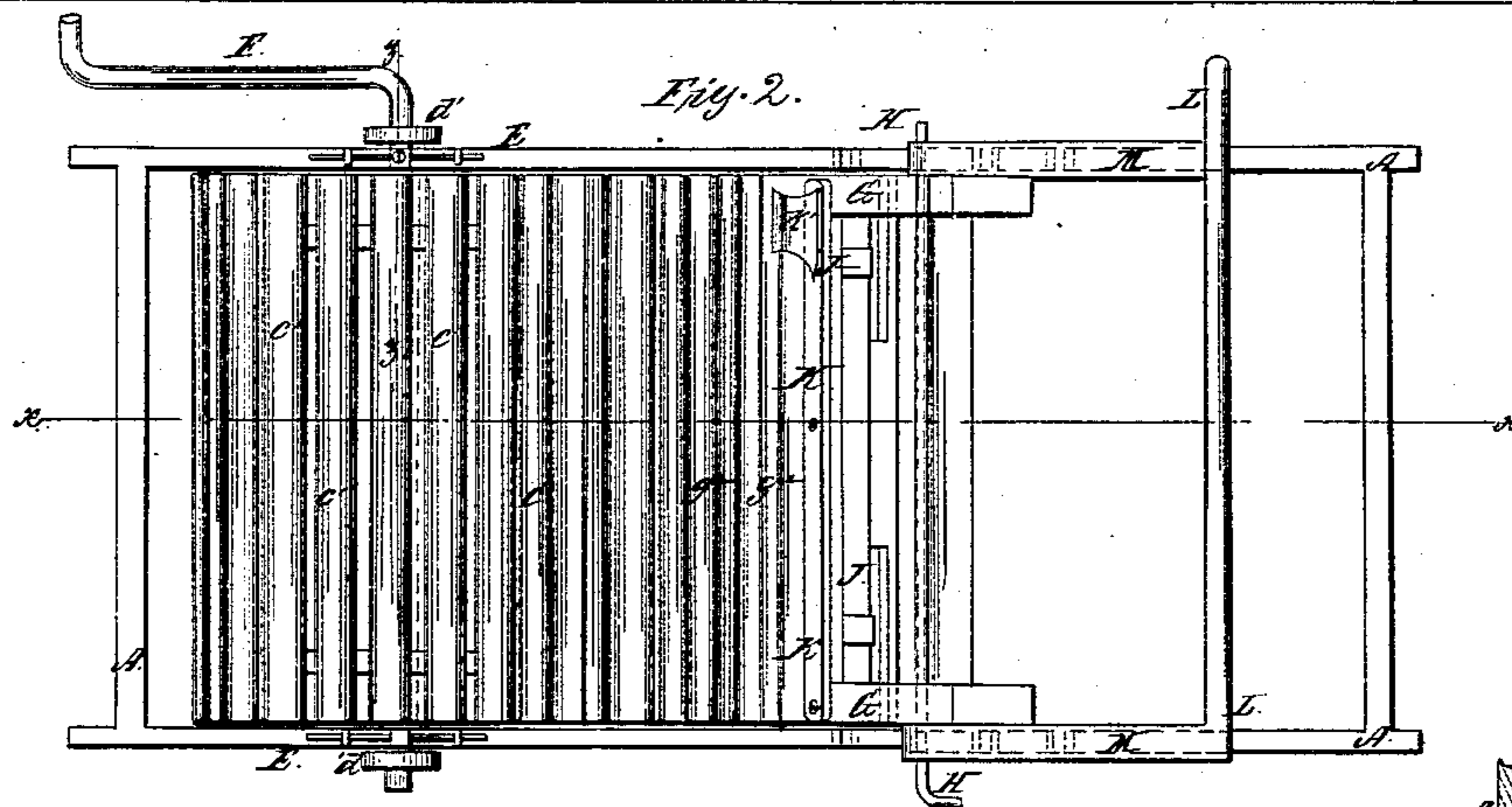
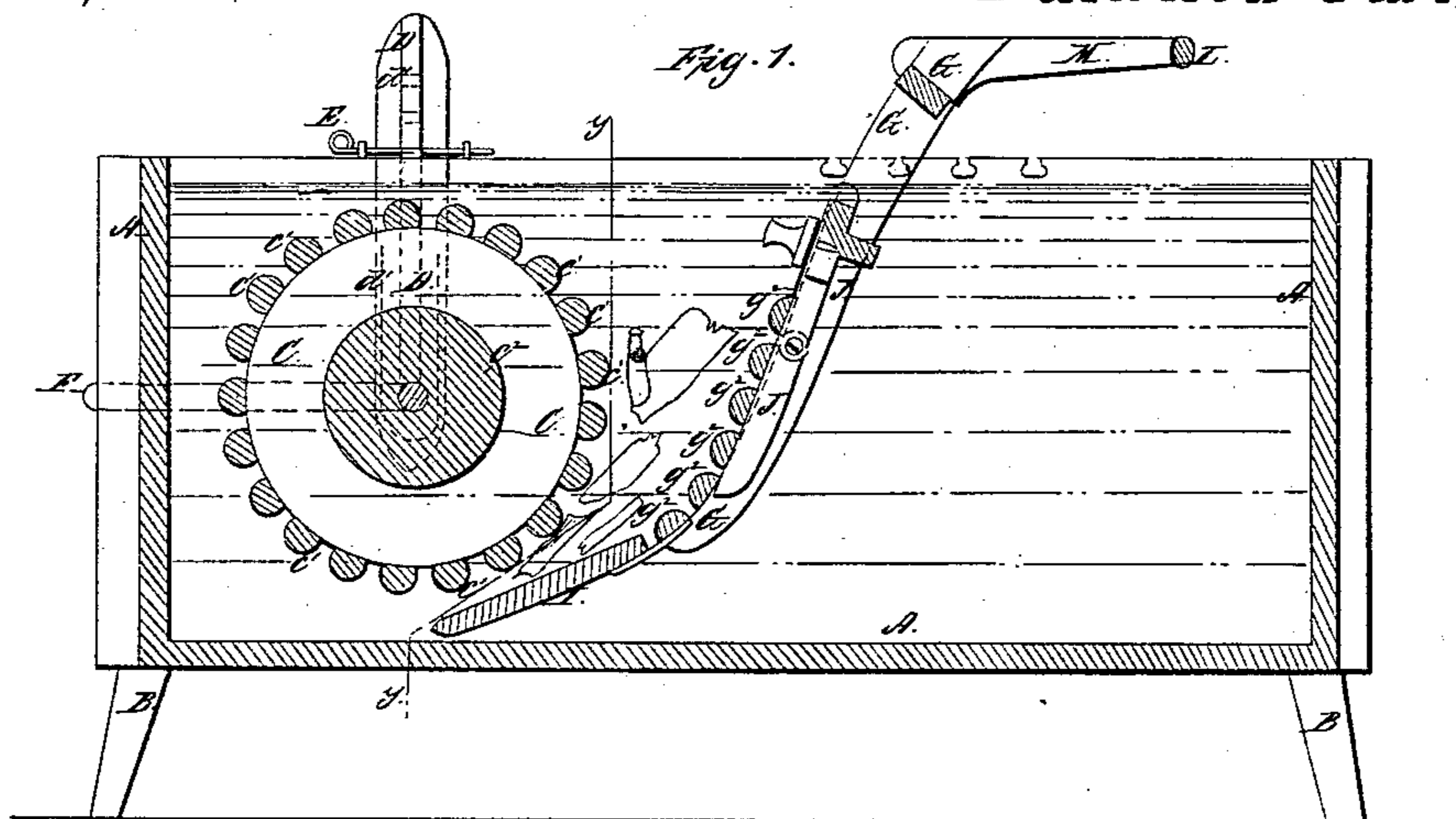


*C. Daniel,*

*Washing Machine.*

*N<sup>o</sup> 61,405.*

*Patented Jan. 22, 1867.*



*Witnesses.  
Thos Tusch  
J. A. Service*

*Inventor:  
Chas Daniel  
Per Munroe  
Attorneys*

# United States Patent Office.

CHARLES DANIEL, OF LAMONTE, MISSOURI.

Letters Patent No. 61,405, dated January 22, 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, CHARLES DANIEL, of Lamonte, in the county of Pettis, and State of Missouri, 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 longitudinal section of my improved washing machine, taken through the line *x x*, fig. 2.

Figure 2 is a top or plan view of the same.

Figure 3 is a detail cross-section of the same, taken through the line *y y*, fig. 1.

Figure 4 is a vertical detail section of the same, taken through the line *z z*, fig. 2.

Figure 5 is a horizontal detail section of the same, taken through the line *x' x'*, fig. 4.

Similar letters of reference indicate like parts.

My invention consists in a slatted cylinder, adjustably pivoted to the sides of the tub or box, in combination with a slatted adjustable concave frame, pivoted to the sides of the box or tub, by means of which the clothes are held forward to be washed by the revolution of said cylinder; and second, in the combination of a clamping device with the slatted concave frame, for the purpose of securing the clothes when any of their parts require an extra amount of rubbing.

A is the box or tub, which is supported upon feet, B, and may be of any desired size, according to the amount of work to be done. C is the cylinder, which is formed by attaching slats, *c'*, to the edges of the flanges of the interior cylinder or shaft *c*<sup>2</sup>. The journals of the cylinder C revolve in bearings in the slides D, placed in vertical slots in the sides of the box or tub A. These slides D are furnished with exterior and interior caps, *d'*, to prevent the escape of the water when the said slides are raised to adjust the cylinder C. The cylinder C is held at any desired elevation by pins, E, passing through holes in the slides D, and resting upon the upper edges of the sides of the tub or box A. The cylinder C is revolved or vibrated by the crank F, attached to the projecting end of its journal, as shown in figs. 4 and 5. G is the concave slatted frame, which is supported and pivoted to the box A by a rod, H, passing through, or by pins projecting from its side-bars, and resting in one or the other of the notches formed in the upper edges of the sides of the said box or tub for that purpose, according to the amount of clothes to be washed at the same time. I is an apron, hinged to the lower end of the frame G, to assist in holding the clothes up against the said cylinder. The lower slats *g'* are attached directly to the side-bars of the frame G, but the upper slats, *g*<sup>2</sup>, are attached to an interior movable jointed frame, J, as shown in figs. 1 and 3. The frame J is jointed to enable it to conform to the curve of the frame G; in whatever position it may be. The frame J is supported by the lever K, to which it is pivoted by a screw or bolt, as shown in fig. 3. One end of the lever K is pivoted to the side-bar of the frame G, and to its other end is attached a pin, which enters one or the other of the holes formed in the other side-bar of the said frame G, for that purpose. *k'* is a knob or handle attached to the free end of the lever K, for convenience in operating it, and raising or lowering the frame J. L is a handle, connected to the frame G by the arms M, by means of which the frame G is operated, and the pressure of the clothes against the cylinder C regulated.

In using the machine, the positions of the cylinder C and frame G are adjusted according to the amount of clothes to be washed. The clothes are then placed between the cylinder C and frame G, as shown in red in fig. 1. The cylinder C is turned a little distance in one direction, which carries the clothes down into the water or suds, and at the same time rubs them. The cylinder is then turned in the other direction, which carries the clothes up out of the water, at the same time rubbing them and squeezing out the dirty water. The clothes are held up against the cylinder and the pressure regulated by operating the frame G by means of the handle L, which can be done with one hand while the other is operating the crank F. When any part or parts of the clothes require an extra amount of rubbing, they are clamped between the slats of the movable frame J and those of the frame G, and rubbed as much as may be necessary by operating the cylinder C in the manner before described.

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

1. The combination of the adjustable slatted cylinder C and the adjustable slatted concave frame G with each other, and with the box or tub A, when said cylinder and frame are constructed and operated substantially as herein shown and described.

2. The clamping device, formed by the combination of the movable jointed frame J with the concave frame G, substantially as herein shown and described, and for the purpose set forth.

CHAS. DANIEL.

Witnesses:

JAMES TEAGUE,

JOSEPH H. TEAGUE.