

P. C. DILLAN.  
Washing-Machines.

No. 136,908.

Patented March 18, 1873.

Fig. 1.

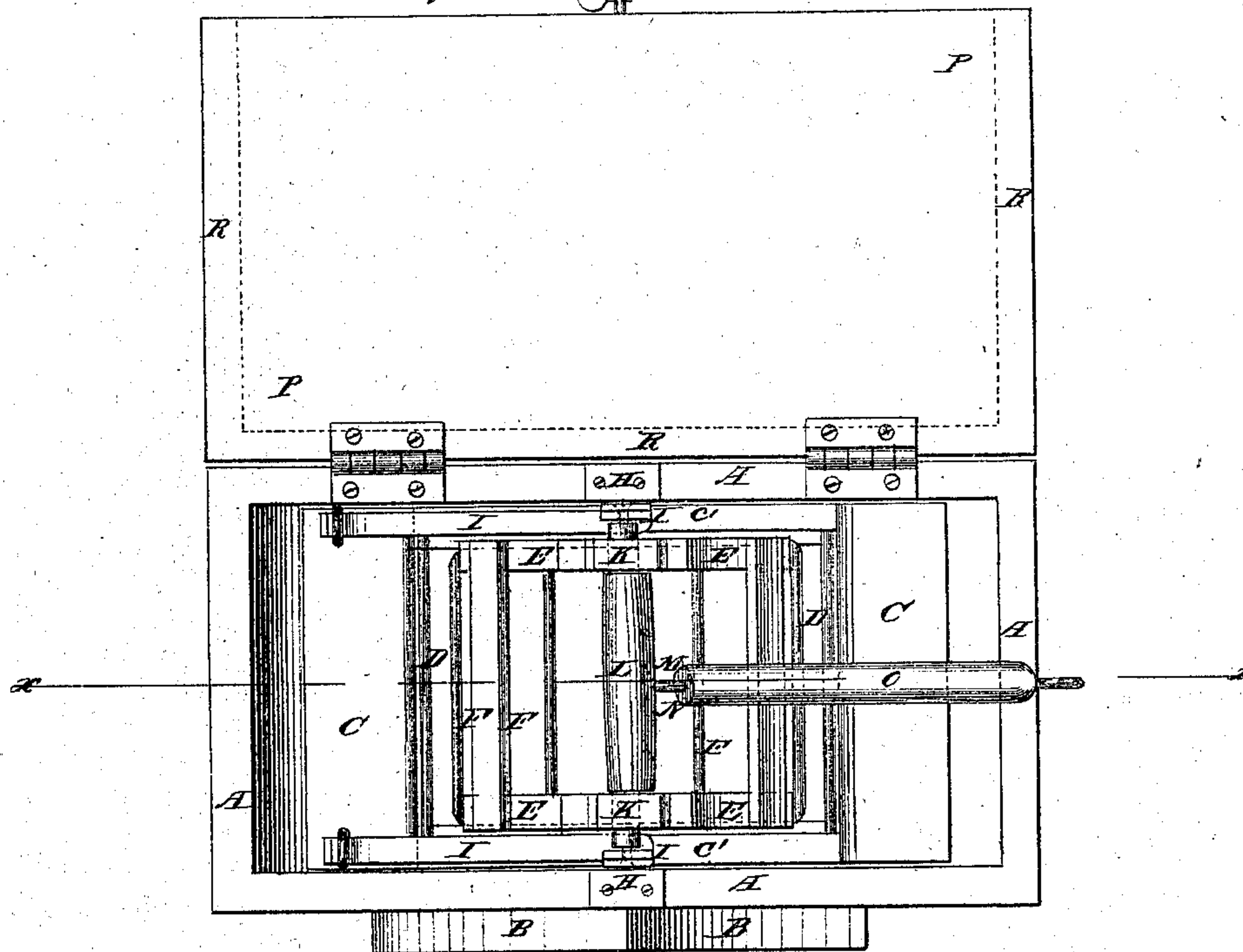


Fig. 3.

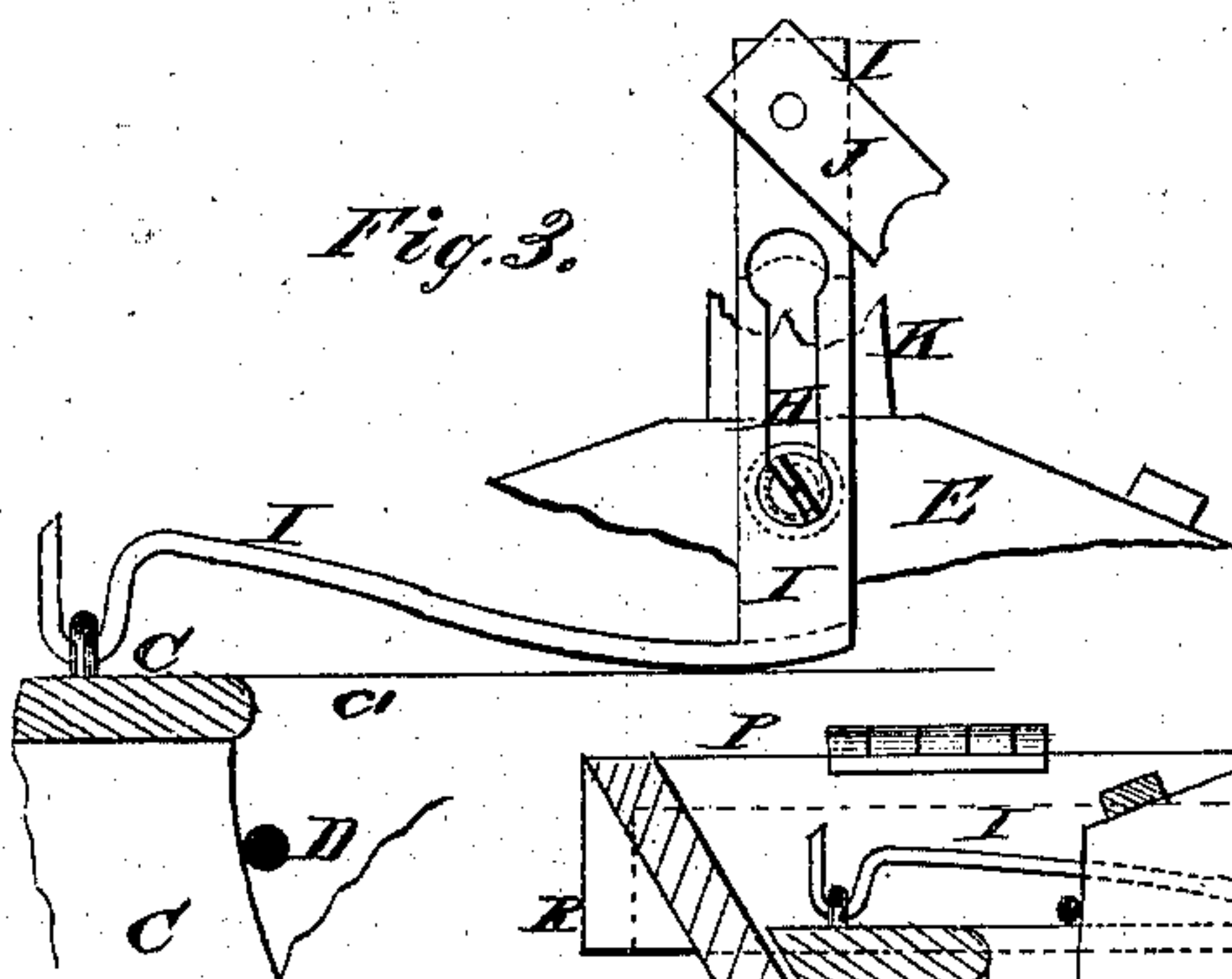
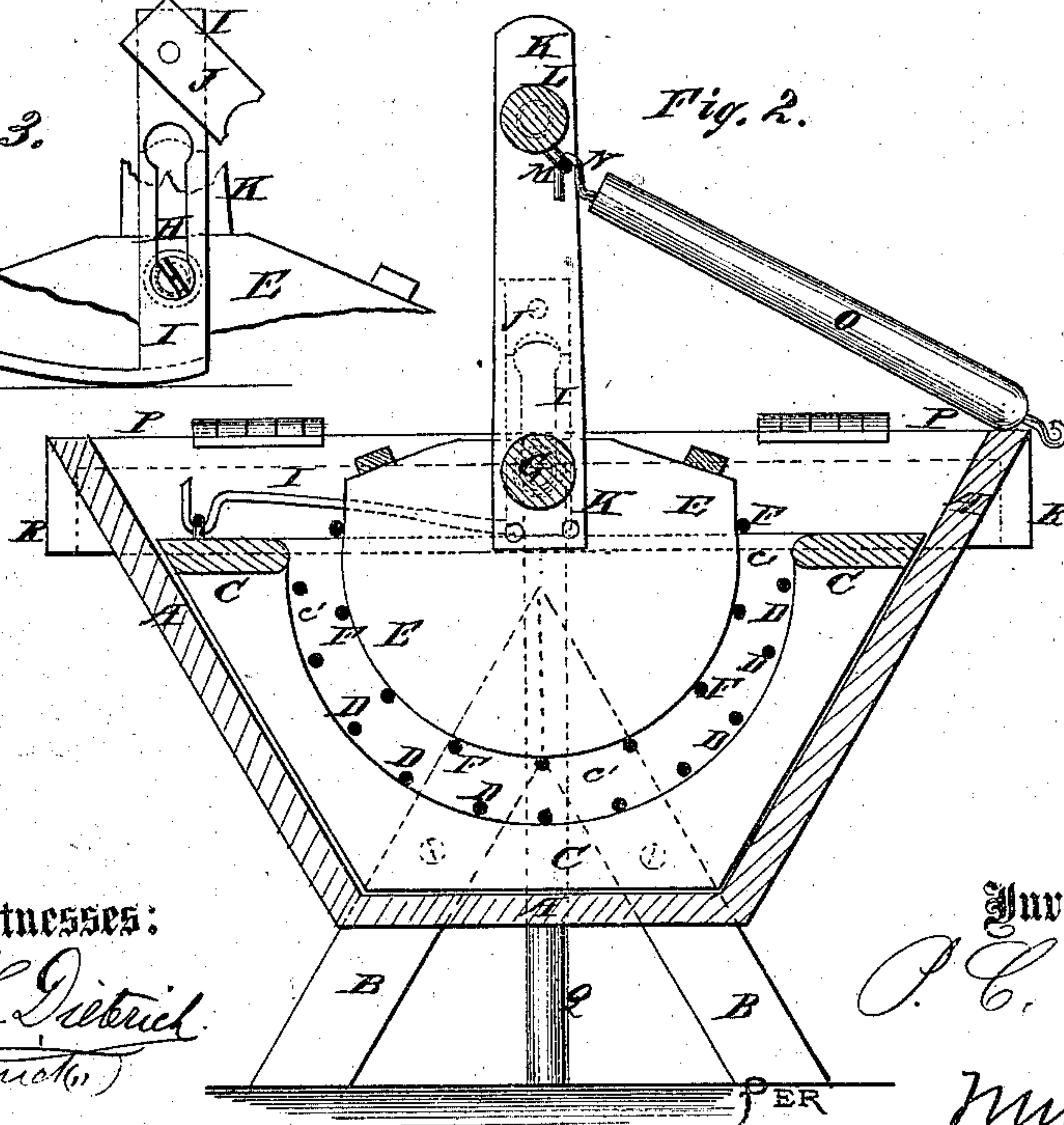


Fig. 2.



Witnesses:

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# UNITED STATES PATENT OFFICE.

PRICE C. DILLAN, OF VILLISCA, IOWA.

## IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **136,908**, dated March 18, 1873.

*To all whom it may concern:*

Be it known that I, PRICE C. DILLAN, of Villisca, in the county of Montgomery and State of Iowa, have invented a new and useful Improvement in Washing-Machine, of which the following is a specification:

Figure 1 is a top view of my improved machine as arranged for use in washing clothes. Fig. 2 is a detail vertical section of the same taken through the line *x x*, Fig. 1. Fig. 3 is a detail view of the device for pivoting the rubber and connecting it with the stationary part of the machine.

My invention has for its object to furnish an improved machine for washing clothes, which shall be simple in construction, convenient in use, and effective in operation, washing the clothes quickly and thoroughly, and without injuring them, and which may be used as a receptacle for unwashed clothes and as a wash-stand. The invention consists in the combination of a concave stationary rubbing surface, and a vibrating rubber of corresponding form, pivoted in slotted bars, which are provided with lateral arms or extensions, hinged to the side of the tub or box, as hereinafter described.

A is the box of the machine, which is made with vertical sides, inclined ends, and horizontal bottom, as shown in Figs. 1 and 2, and is supported upon legs B of such a length as to raise the machine to a convenient height. C is a frame, which is fitted into the box A, and the inner edges of the side bars of which are curved upon the arc of a circle, and have wires D, of iron or other suitable metal, attached to them about an inch apart. The wires D are further secured in place by semicircular plates *c'*, placed upon and secured to the curved edges of the said side bars of the frame C. The rubber is constructed as follows: E are two semicircular disks placed at such a distance apart as to fit into the space between the plates *c'* of the frame C. The disks E are connected and held in their proper relative positions by wires F, of iron or other suitable metal, the ends of which wires are attached to the curved edges of the said disks

E. The disks E are further connected by a rod, G, that passes through their middle parts, and the ends of which project to serve as pivots H, or as supports for said pivots H. The pivots H enter and work in longitudinal slots, in the vertical arms of the bent bars I, so that the rubber may move up and down to adjust itself to the thickness of the clothes to be operated upon. The upper ends of the said slots are enlarged to allow the said pivots to pass in and out readily. The enlarged upper ends of said slots are covered to prevent the pivots from coming out accidentally, by buttons J, the upper ends of which are pivoted to the upper ends of the vertical ends of the bars I, and their lower ends are notched, so that should the pivots I rise to the upper part of their slots they may enter the said notches and thus lock the buttons J. The bars I are bent at right angles and their horizontal arms extend along and rest upon the upper edges of the plate *c'* of the frame C, and have hooks formed upon their ends to hook into eyes or staples attached to the said frame C so that the rubber can be conveniently turned back for the ready insertion and removal of the clothes. To the middle parts of the semicircular disks E are attached the lower ends of the levers K, in the upper ends of which work the ends of the round L, which is designed to serve as a handle in operating the machine. To the middle part of the round L is attached an eye or staple, M, to receive a hook, N, attached to the end of a rod or bar, O, so that the machine may be operated when desired by a person sitting at the end of the box A. P is the cover of the box A, which is hinged at one edge to the upper edge of one side of the box A, so that it may be turned back into a horizontal position to serve as a table to hold the clothes when being put into and removed from the machine. The free edge of the cover P is supported when turned back by a detachable leg, Q, which is connected with said cover by a hook and eye, or other convenient detachable means. The cover P is provided with an upwardly-projecting flange, R, along the edge of its two ends

and one side, to adapt the box and cover, when the rubber has been removed, to serve as a wash-stand.

It should be observed that when the rod or bar O N is used the round L should be made rigid by a pin passed through its end and through the lever K.

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

The combination, with a box, A, of the concave formed of the wires D and frame C, the rubber formed of wires F and disks E, the shaft G, and slotted bars I provided with the lateral arms connected to the frame C, substantially as shown and described.

PRICE COOPER DILLAN.

Witnesses:

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