

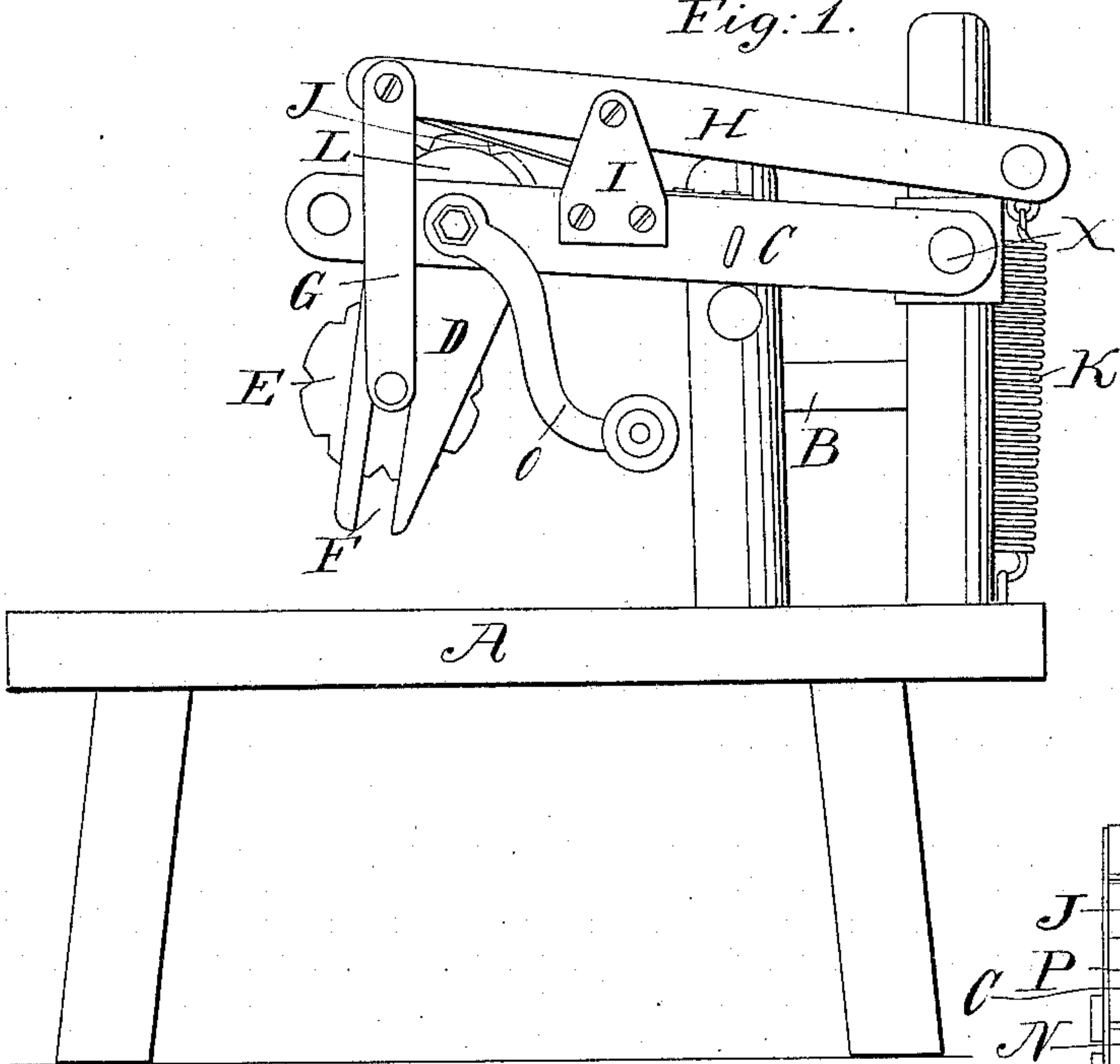
*W. N. Lockwood,*

*Washing Machine,*

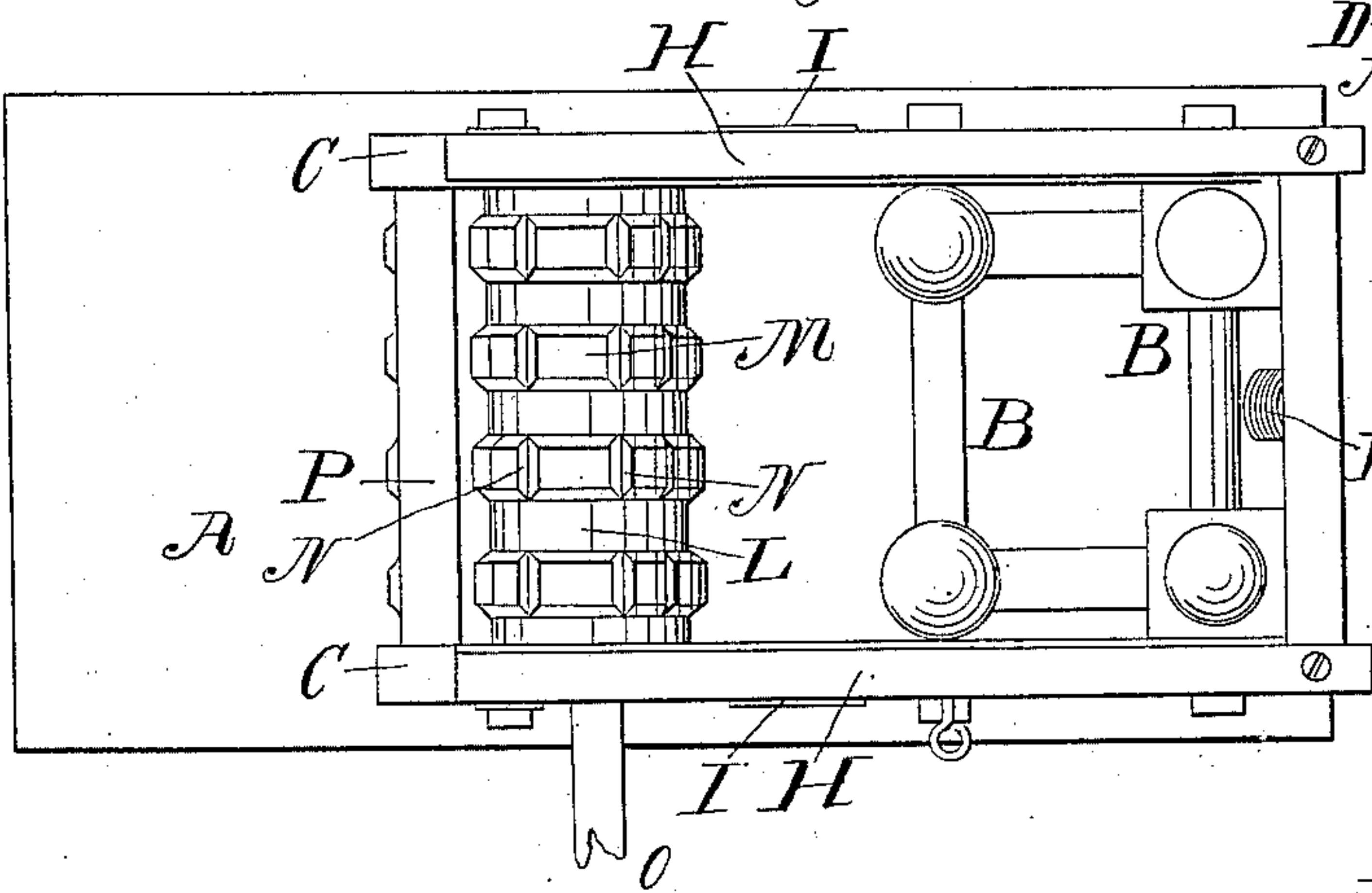
*N<sup>o</sup> 63,402.*

*Patented Apr. 2 1867.*

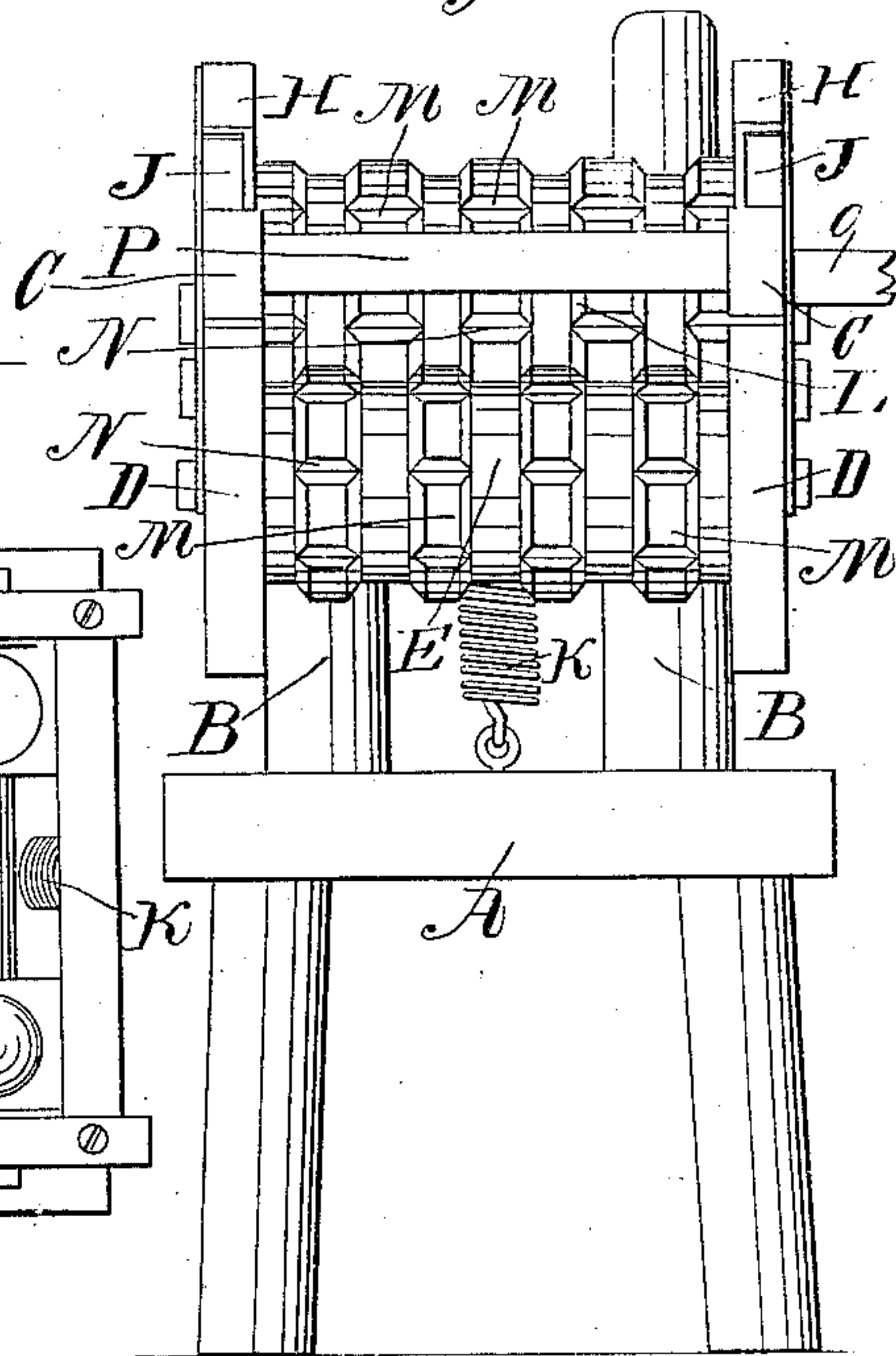
*Fig: 1.*



*Fig: 2.*



*Fig: 3.*



*Witnesses;*

*W. H. Burridge  
J. Holmes—*

*Inventor;*

*W. N. Lockwood*

# United States Patent Office.

W. N. LOCKWOOD, OF WOODCOCK, PENNSYLVANIA.

*Letters Patent No. 63,402, dated April 2, 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, W. N. Lockwood, of Woodcock, in the county of Crawford, and State of Pennsylvania, have invented certain new and useful improvements in Washing Machines; and I do hereby declare that the following is a full and complete description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side view of the machine.

Figure 2 is a top view of the same.

Figure 3 is a front view.

Like letters of reference refer to like parts in the views.

A, fig. 1, is a stool or bench, upon one end of which is secured the washing apparatus, which is constructed as follows: B is a frame, to the rear part of which are pivoted, at the point X, the arms C, one at each side, and which it will be seen project forward over the front of the stool. From the projecting ends of these arms depend the stays D, between which is held the roller E; this roller is adjustable by means of the slots F, in which the journals of the roller are fitted, and is prevented from falling from the slot by the link G, in the end of which the journals run. The upper end of this link is fastened to the front end of the lever H, fig. 1, and which, lever is pivoted to the stay I upon which it vibrates, as will hereafter be shown. J is a spring, which, together with the spiral spring K, keeps the lever in the position, as shown in fig. 1, and by the means of which the roller E is made to press firmly against the roller L. It will be observed that these rollers are each provided with raised bands M, the bands on the upper roller being so arranged as to conform to the spaces between the bands on the lower roller, and thus the two rollers are made to touch each other across their entire face. Several notches, N, are cut across the face of the bands, the purpose of which will hereafter be described. O is a crank by which the rollers are operated; P, a tie securing the front ends of the projecting arms referred to.

Having thus described the several parts of the machine, the practical operation of the same is as follows: An ordinary wash tub is placed upon the stool immediately under the rollers, which may be lifted up out of the way, the arms C being pivoted in the manner as above described for that purpose. The clothes are then run between the rollers, which by their pressure and their irregular surfaces, caused by the several bands and notches described, the clothes are pressed and rubbed by the bands by pressing them down into the notches and between the bands, and thus the clothes by the two operations are easily and quickly washed. The pressure exerted by the rollers upon the clothes being as the strength of the spring for heavy, coarse clothes, the two springs are required, but for light or delicate fabrics the front springs only are needed. The lower roller being adjustable, and each end of the same acting independently of each other, *i. e.*, one end of the roller may be depressed while the other still remains in contact with the upper one. By this the rollers adapt themselves to the thickness of the clothes as they are run through, so that the pressure is equally exerted upon them, thus preventing any undue strain on the clothes by pressing them unequally down into the spaces between the bands. The work being completed, the rollers are then lifted from the tub by throwing them upward to a vertical position, as above described, thus leaving the tub open and free for the operator to finish off the washing.

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

The levers H, springs J K, links G, and roller E, in combination with the roller L, arms C, and slotted stays D, arranged in the manner and operating conjointly, substantially as and for the purpose set forth.

W. N. LOCKWOOD.

Witnesses:

W. H. BURRIDGE,

J. HOLMES.