

S. N. PAGE.  
Washing-Machines.

No. 146,091.

Patented Dec. 30, 1873.

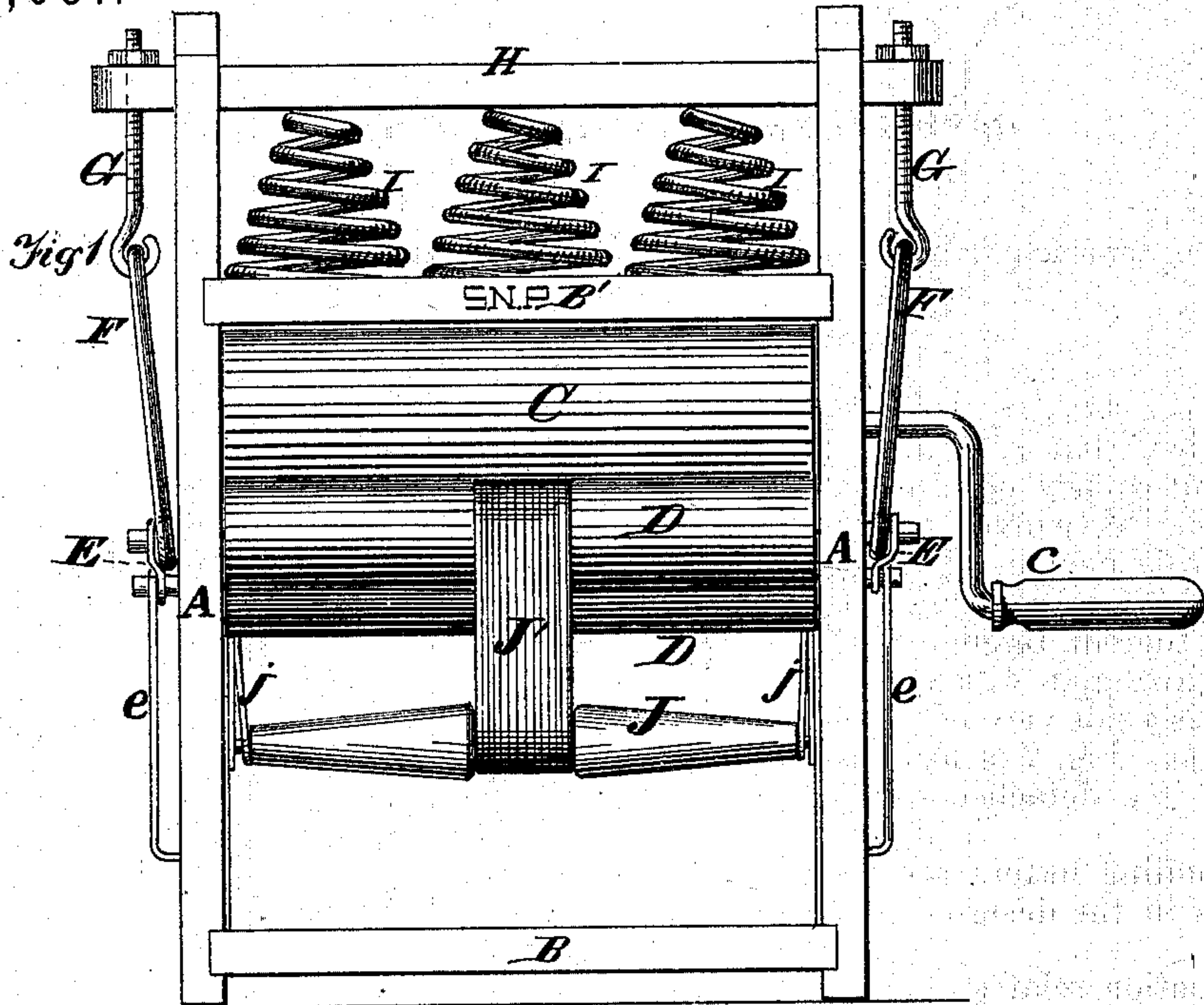
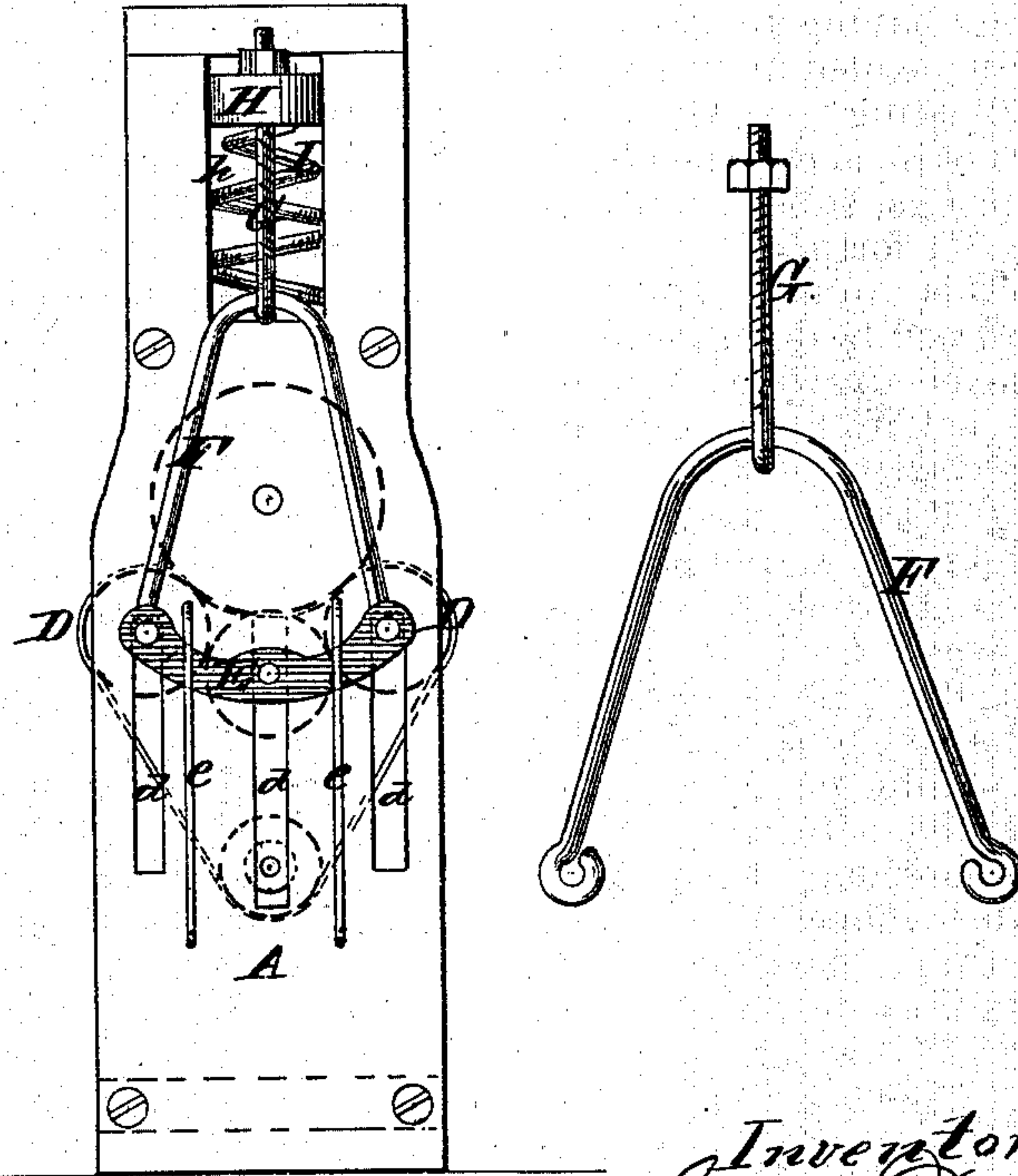


Fig. 2



Witnesses

*W. Bradford*  
*Q. B. Oster*

Inventor

*S. N. Page*  
*Adorn Bros*  
*Attorneys*



# UNITED STATES PATENT OFFICE.

SAMUEL N. PAGE, OF LAMAR MILLS, PENNSYLVANIA.

## IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 146,091, dated December 30, 1873; application filed October 2, 1873.

*To all whom it may concern:*

Be it known that I, S. N. PAGE, of Lamar Mills, in the county of Clinton and State of Pennsylvania, have invented a certain new and useful Improvement in Washing-Machines, of which the following is a full, clear, and exact description thereof, reference being had to the annexed drawing, in which—

Figure 1 is a side view of my improved washing-machine. Fig. 2 is an end view thereof; and Fig. 3 is a detached view of part of the same.

Corresponding letters are used in the several figures in the designation of corresponding parts.

This invention relates to a certain improvement in washing-machines; and it consists of slotted uprights having rollers, the lower ones of which are suspended through hangers, embraced by adjusting-screws, which depend from a bar or board, acted upon by the upward pressure of springs, substantially as hereinafter more fully set forth.

To enable others to make and use my invention, I will proceed to describe it.

In the annexed drawing, A A refer to two uprights, and B B' to horizontal pieces united in any known way to the former. C is a large upper corrugated roller, the axis of which enters the uprights A A, and is formed at one end with a double crank, *c*, to enable the said roller to be operated. D D D refer to three smaller corrugated rollers, the axes of which enter vertical slots *d d d* in the uprights A A, and curved metallic plates or bars E E, held in close proximity with the latter by staples or guides *e e e* entering said uprights, and suspended from bell-shaped bars or hangers F F, which are, in turn, suspended from the hooks or eyes formed upon the lower ends of the adjusting-screws G G, which depend from a bar or board, H. The board H passes through slots *h* in the upper ends of the uprights A A, and rests upon and is fastened to coiled or spiral springs I I, which rest upon and are secured to the board or cross-piece B'. Through this

combination of parts the lower rollers D D automatically adjust themselves various distances apart from the upper roller C, when pressure is applied thereto, to permit of the passage between the same and the roller C of articles or clothes of different thicknesses. The lower rollers D are set in motion by the action of the upper one C.

The adjusting-screws G G are specially designed for regulating the tension or pressure of the springs I I, which, through the mechanism hereinbefore described, impart upward pressure to the lower rollers D D. By uniting these adjusting-screws to the hangers F F, through eyes or hooks, the said hangers are caused to have a greater or less amount of oscillatory motion when the rollers are in operation, which, in turn, impart a like movement to the lower rollers D, to enable the latter to act in the capacity of rubbers.

J is a guide-roller, around and from which a belt of canvas or other suitable material, J', passes over the lower rollers D D, and which has its bearings in pendants slipped upon the axis of the center one of the lower rollers D. This roller is kept intact with the uprights A by means of the flat metallic springs *j j*, as shown in Fig. 1, for the purpose of avoiding friction between these parts.

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

The uprights A A, having slots *d d h*, in combination with the rollers C D D, the latter being suspended from the bars E and hangers F, embraced by the adjusting-screws G G which depend from the bar H, pressed upward by the springs I I, substantially as shown and described, and for the purpose set forth.

In testimony whereof I have hereunto signed my name this 29th day of September, 1873, in presence of two subscribing witnesses.

SAMUEL N. PAGE.

Witnesses:

G. W. BATCHELER,  
JOHN LONG.