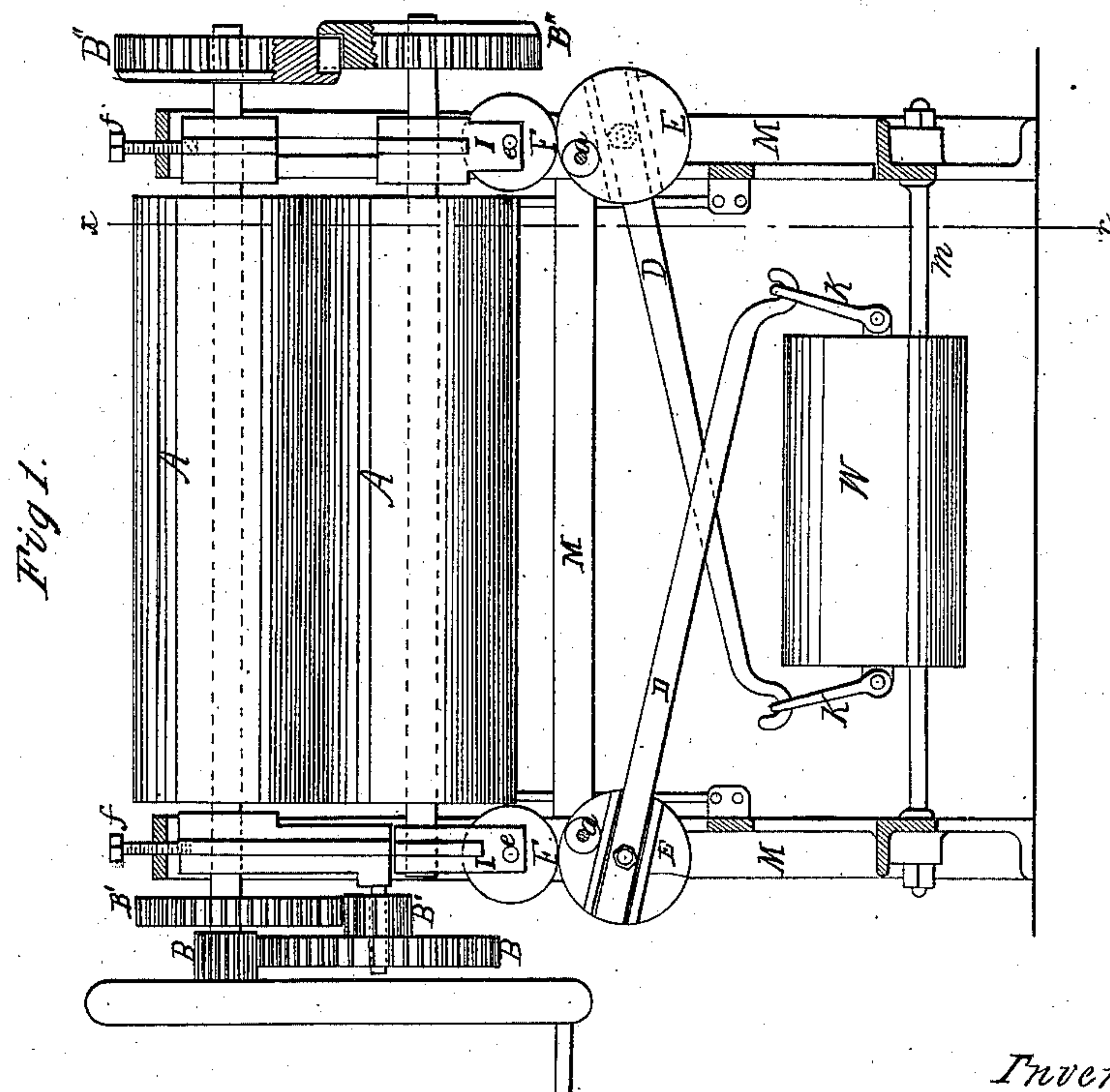
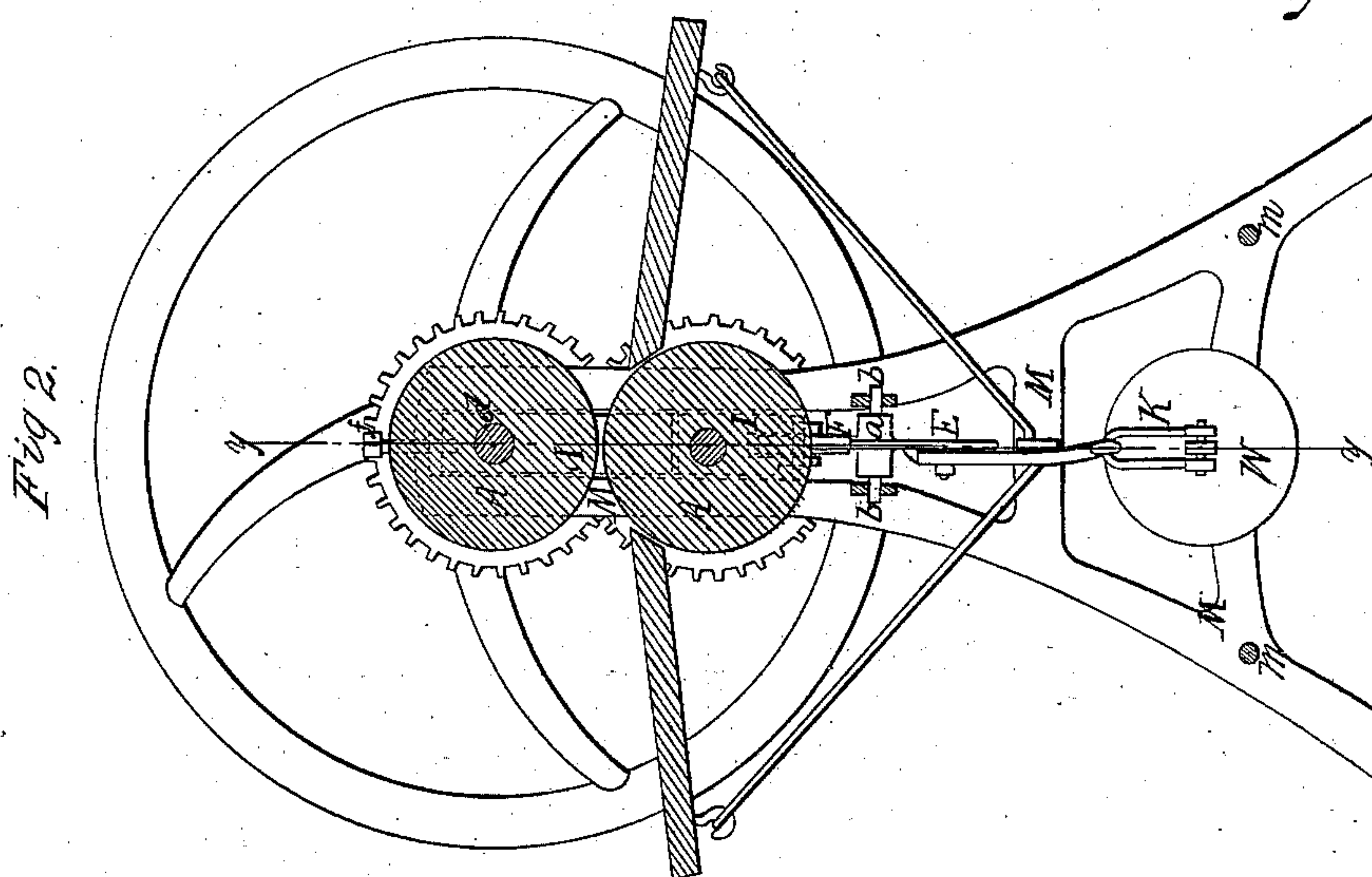


J. Seaman,

Mangle,

N^o 80,019.

Patented July 14, 1868.



Witnesses:

W. G. Ashkett
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United States Patent Office.

JOSEPH SEAMAN, OF CHICAGO, ILLINOIS.

Letters Patent No. 80,019, dated July 14, 1868.

IMPROVED MANGLE AND IRONING-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, JOSEPH SEAMAN, of Chicago, in the county of Cook, and State of Illinois, have invented a new and improved Clothes-Mangle and Ironing-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.

Figure 1 is a transverse section of my improved machine, through the line *y y*, fig. 2.

Figure 2 is a cross-section of the same, through the line *x x*, fig. 1.

Similar letters of reference indicate corresponding parts.

This invention relates to an improved clothes-mangle, and consists of a device for actuating the lower roller upward against the top roller by means of a pair of levers and a weight, together with other devices perfecting the whole, as will be hereinafter more fully set forth.

In the drawings, *A A'* are the rollers, *B B*, *B' B'*, *B'' B''* the gearing of the same, all working in a frame, *M*, of the ordinary construction; *C* is the fly-wheel, bearing a crank-handle, for turning the rollers thus geared together.

Heretofore in machines for pressing or mangling clothes, the pressure of the rollers in contact with the clothes was maintained by springs, which, if adjusted to bear with sufficient force upon a thin entry of clothes, would not admit a thicker entry of the same without readjustment of the rollers, or if set for the pressing of thick goods, would not, without readjustment, press with sufficient force upon thinner articles.

In addition thereto, the springs, to have suitable qualities of toughness and power, were expensive.

In my improved machine I obviate these disadvantages by dispensing with springs and substituting a system of levers, operated by a weight in the manner now to be shown.

D D are the levers, each of which is bolted to a slot in a disk, *E*, which is hung eccentrically on a pivot-shaft, *a*, the said shaft having bearings in the frame of the machine, as shown at *b b* in fig. 2. This disk has a convex or V-shaped periphery, which fits a corresponding groove in a wheel, *F*, having its bearings, *e*, in the pillow-block *I'*, of the lower roller *A'*.

The upper roller, *A*, has its bearings, *d*, in the pillow-block *I*, and is adjusted by a set-screw, *f*, and after being once adjusted, needs not to be touched for the accommodation of clothes of different thickness, for this is provided for by the recession of the lower roller, as will be shown.

Both of the pillow-blocks fit in the frame of the machine by a tongue and groove, arranged vertically in the frame and pillow-blocks.

The disks *E* being eccentric, will, when the levers are depressed by the weight *W*, act upon the grooved wheels *F*, hung in the pillow-blocks *I'*, thus pressing upward the said pillow-blocks, and consequently the lower roller *A'* will be brought to exert pressure upon the clothes between it and the upper roller.

The levers cross each other, and terminate in hooks, which support the weight *W*, by links *b*, attached to the latter, as shown. By the combination of the levers and eccentric-disks, a great and nearly constant pressure is excited, and while the thinnest entry of clothes will be pressed and smoothed by the machine, any thickness of fabric or fabrics within the limit of extension of the rollers will be also acted upon with the corresponding increase of pressure required to smooth the extra thickness.

Being simple in construction, it is both cheap and durable, and provides a machine for the purposes set forth that will accomplish the work in a satisfactory manner.

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

The combination of the rollers *A A'*, levers *D*, eccentric-disks *E*, pillow-block wheels *F*, and weight *W*, or their equivalent devices, substantially as shown and described for the purpose specified.

JOSEPH SEAMAN.

Witnesses:

WM. M. FERRY, Jr.,

W. O. RICE.