Taylor & Cohn,

Clothes Mangle.

No. 97,245. Patented Nov. 23, 1869.

Fig. 1.

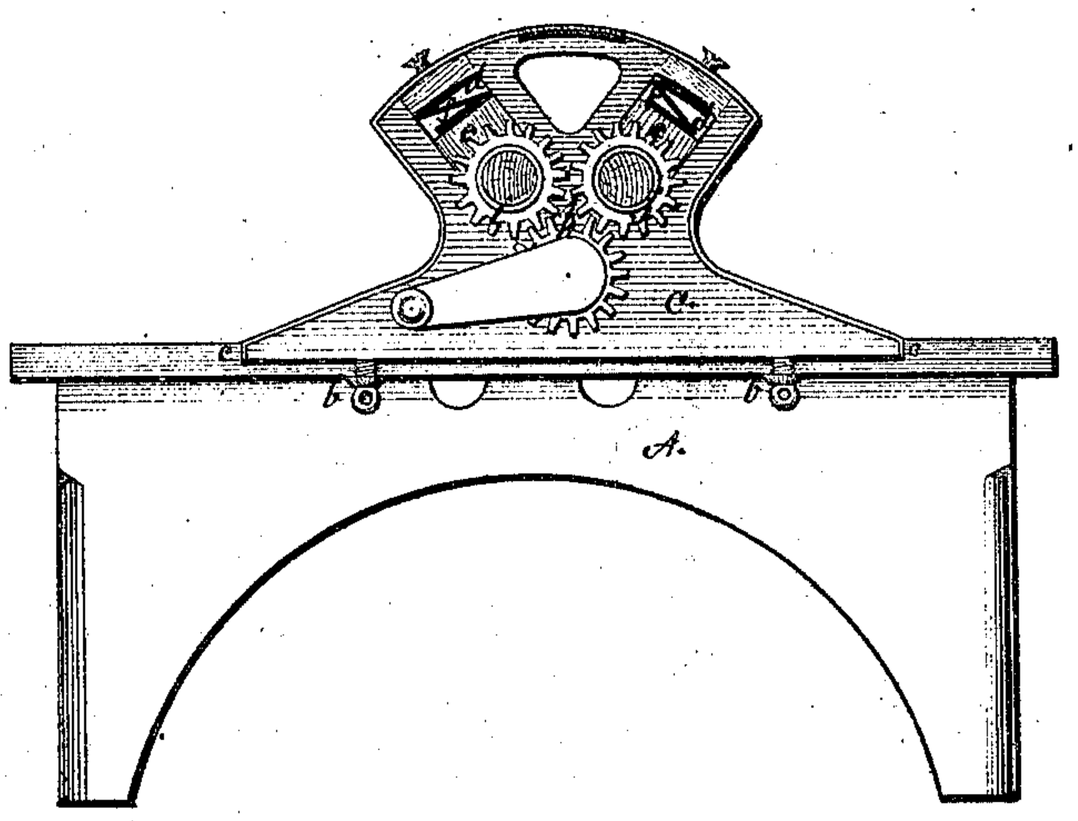


Fig. 2.

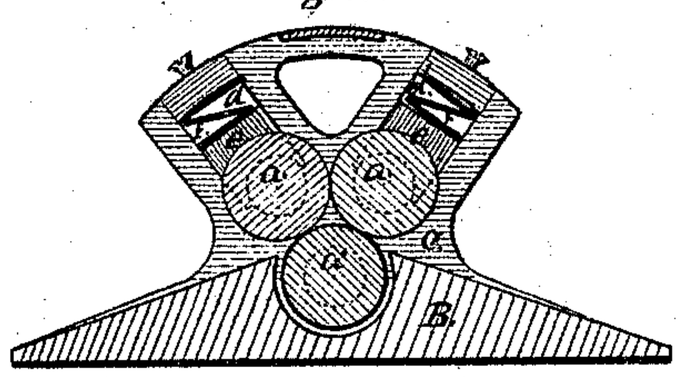
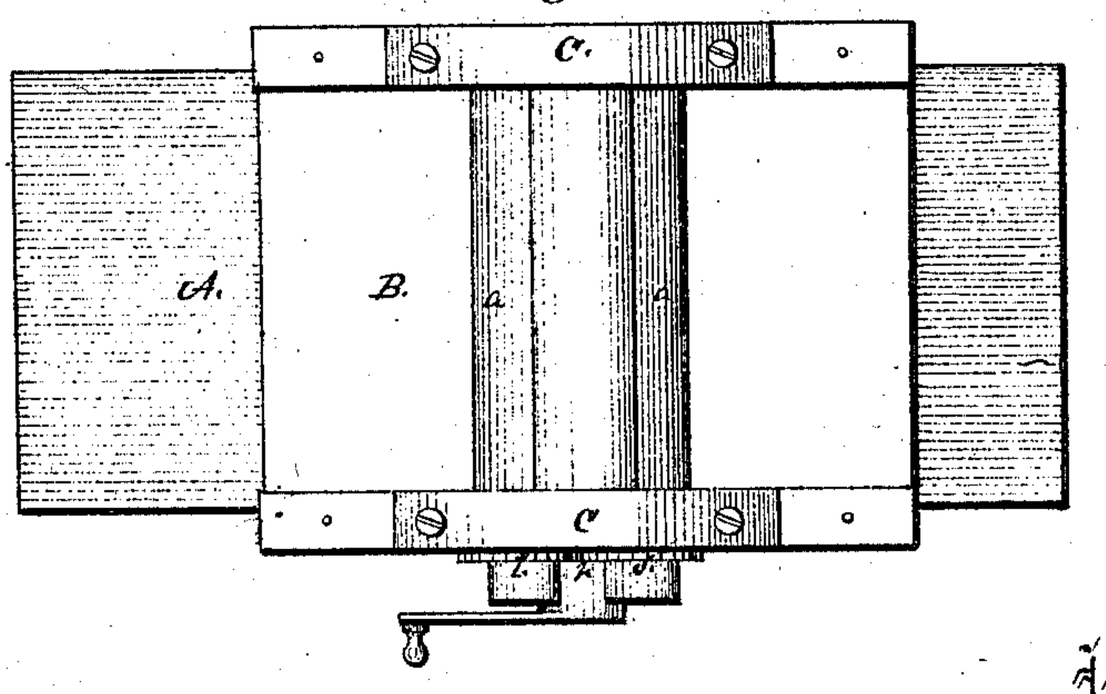


Fig. 3.



Witnesses.

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ESAU D. TAYLOR AND DAVID COHN, OF HORNELLSVILLE, NEW YORK.

Letters Patent No. 97,245, *dated November* 23, 1869.

IMPROVED CLOTHES-MANGLE.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, ESAU D. TAYLOR and DAVID COHN, of Hornellsville, in the county of Steuben, and State of New York, have invented certain new and useful Improvements in Mangles for Ironing Clothes, Bed and Table-Linen; and the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a face side elevation of the machine, showing the gear-wheels and the yielding spring-mechanism, with the crank for operating.

Figure 2 shows a section through the mangle-rollers and crowning-table.

Figure 3 represents a plan or top view of the machine.

Our invention relates to a class of labor-saving mechanism for calendering and smoothing textile fabrics, by passing them between yielding-pressure rollers; and

It consists in the arrangement of the crowning guide-table, the angular frames for the journal-boxes, and series of presser-rolls, combined to operate so as to draw the fabric straight on the upper surface, and prevent creases and wrinkles in ironing or smoothing.

That others may be enabled to make and use our improved mangle or ironing-machine, we will describe it more in detail.

The table A may be made of any desired form and dimensions, plain or ornamental, and can be used as a table for various other purposes; or the length of the calenders *a a a'* may be such that the machine may be fitted to, and used on a common kitchen-table, thereby dispensing with a table or stand made expressly for it.

The crowning guide-table or base B lays flat on the top of the table A, the angular frames C C being secured to the sides of the base B.

The edges *c c* project below sufficient to form guides, and the machine is held firmly on the table by the clamping-screws *b b*.

The angular frames C C may be made of hard wood or of cast-metal, with the openings *d d* for the yielding journal-boxes *e e* and springs *f f*, the two upper calender-rollers *a a* being pressed toward the centre of the lower or driving-roller *a'*, which is embedded nearly in the crowning guide-table B, so that the article to be pressed or ironed enters between the rollers on a line with the incline on one side, and comes out on the line of the incline on the other side, thus drawing on the upper side and straightening the fabric, so that no wrinkles are liable to be pressed in.

The calender-rollers *a a a'* may be made of hard wood or of metal, solid or hollow, and used cold or heated by steam or otherwire, they all being provided with cog-wheels *h i j*, so that their motion is positive, there being no slipping to strain, injure, or tear the fabrics.

The advantages of our arrangement of calender-rollers, as above described, are, that the crowning guide-table, whose incline planes are in line with the square of the top rolls, draw on the upper surface of the fabric, and make it more even and smooth than when it is passed through in a direct line.

What we claim as our invention, and desire to secure by Letters Patent, is—

The arrangement of the crowning guide-table or base B, the angular journal-box frames C C, and a series of calender-rollers *a a a'*, all combined to operate as and for the purposes herein set forth.

In testimony whereof, we hereunto subscribe our names, in the presence of—

ESAU D. TAYLOR.
DAVID COHN.

Witnesses:
H. F. HOWARD,
D. L. BENTON.