

J.E. Sachse - Improved Instrument for Making Folds in Fabrics

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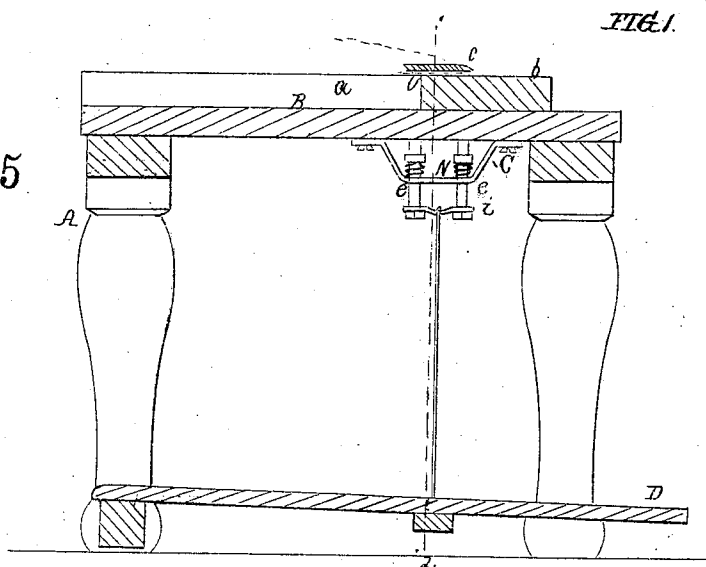
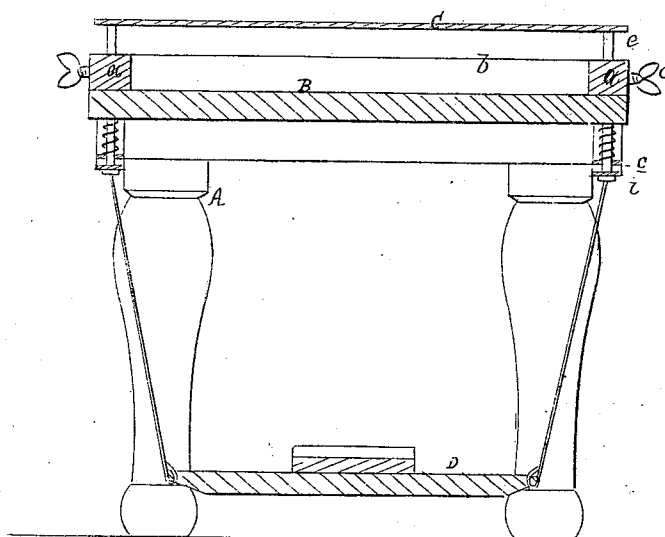


FIG. 1.



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FIG. 2.

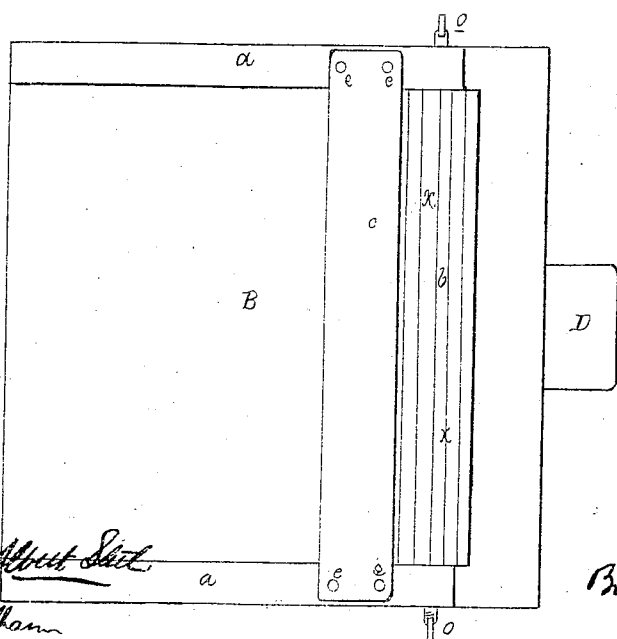


FIG. 3.

Witnesses { *Wm. Albert Schell*
Minneapolis

J. F. Sachse
By his attorney
H. Houson

United States Patent Office.

J. F. SACHSE, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 72,685, dated December 24, 1867.

IMPROVEMENT IN CLOTH-PLAITING 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, J. F. SACHSE, of Philadelphia, Pennsylvania, have invented an Improved Instrument for Making Folds in Fabrics; and I do hereby declare the following to be a full, clear, and exact description of the same.

My invention consists of an adjustable blade, operating in combination with an adjustable bar, substantially as described hereafter, so that a series of plaits or folds, of any required width, may be formed in strips of fabric, as, for instance, in strips from which shirt-bosoms or other articles are to be made.

In order to enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation, reference being had to the accompanying drawing, which forms a part of this specification, and in which—

Figure 1 is a sectional elevation of my improved instrument for making folds in fabrics,

Figure 2 a vertical section on the line 1 2, fig. 1, and

Figure 3 a plan view.

A is a table, to the top, B, of which, near the opposite edges, are secured guides *a a*, and between the latter fits an adjustable bar, *b*. Across the table extends a thin metal blade, *c*, each end of which is secured to two vertical rods, *c c*, passing through the adjacent guide *a*, through the top of the table, and through a hanger, C, secured to the under side of the same. The two rods *c c*, at each side of the table, are connected together at their lower ends by a cross-piece, *i*, and round each rod is coiled a spring, *n*, which bears against the hanger C, and against a shoulder on the rod, the several springs thus tending to maintain the blade in an elevated position. To each cross-piece *i* is secured a cord, which is connected at the lower end to a bar attached to a treadle, D, hung to the rear legs of the table. On the upper face of the adjustable bar *b* is a series of longitudinal lines, *x x*, which are parallel to the edge of the bar, and in the guides *a a*, turn set-screws *o o*, by which the bar *b* may be secured in any position to which it has been adjusted. The first fold or plait is made in a strip of fabric in the usual manner. The operator then takes a position in front of the instrument, and, after introducing the fabric between the bar *b* and the blade C, depresses the latter by applying his foot to the treadle D. The strip is then drawn forward until the fold or plait strikes the front edge of the bar *b*. The fabric is now turned back over the top of the blade C, as shown in fig. 1, and is pressed against the front edge of the blade, by drawing across it a strip of polished ivory, or other suitable material, so as to make a crease. The operator then removes his foot from the treadle, when the springs *n* will elevate the rod *c* and the blade; after which the fabric is withdrawn, is folded at the point where it is creased, and is sewed in the ordinary manner, a second plait being thus produced. The fabric is now passed a second time between the blade and the bar, is drawn forward until the plait last formed strikes the front edge of the bar, and a new crease is made in the same manner as the first. As the width of the fold or plait depends upon the distance between the inner edge of the bar *b* and the outer edge of the blade C, it is only necessary to properly adjust the bar *b* in order to produce folds of any desired width.

It will be seen that this instrument is especially adapted for folding strips of fabric from which shirt-bosoms are to be made, and in which it is necessary that the folds should be uniform in width.

Without confining myself to the precise construction and arrangement of parts herein described—

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

An adjustable blade C, arranged to operate in combination with an adjustable bar *b*, substantially as and for the purpose described.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

J. F. SACHSE.

Witnesses:

CHARLES E. FOSTER,

W. J. R. DELANY.