

*S. Fiske. Apparatus for Shaping Articles of Cloth. —*

75143

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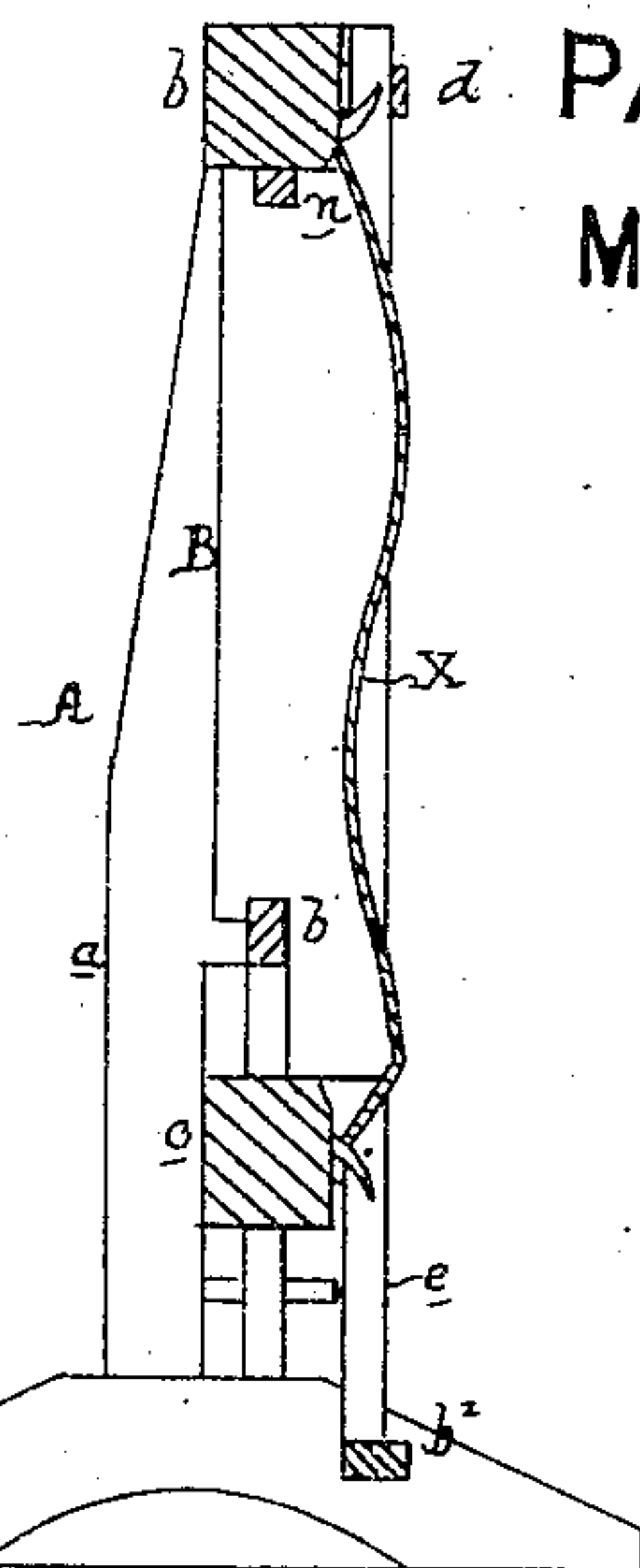


FIG. 2.

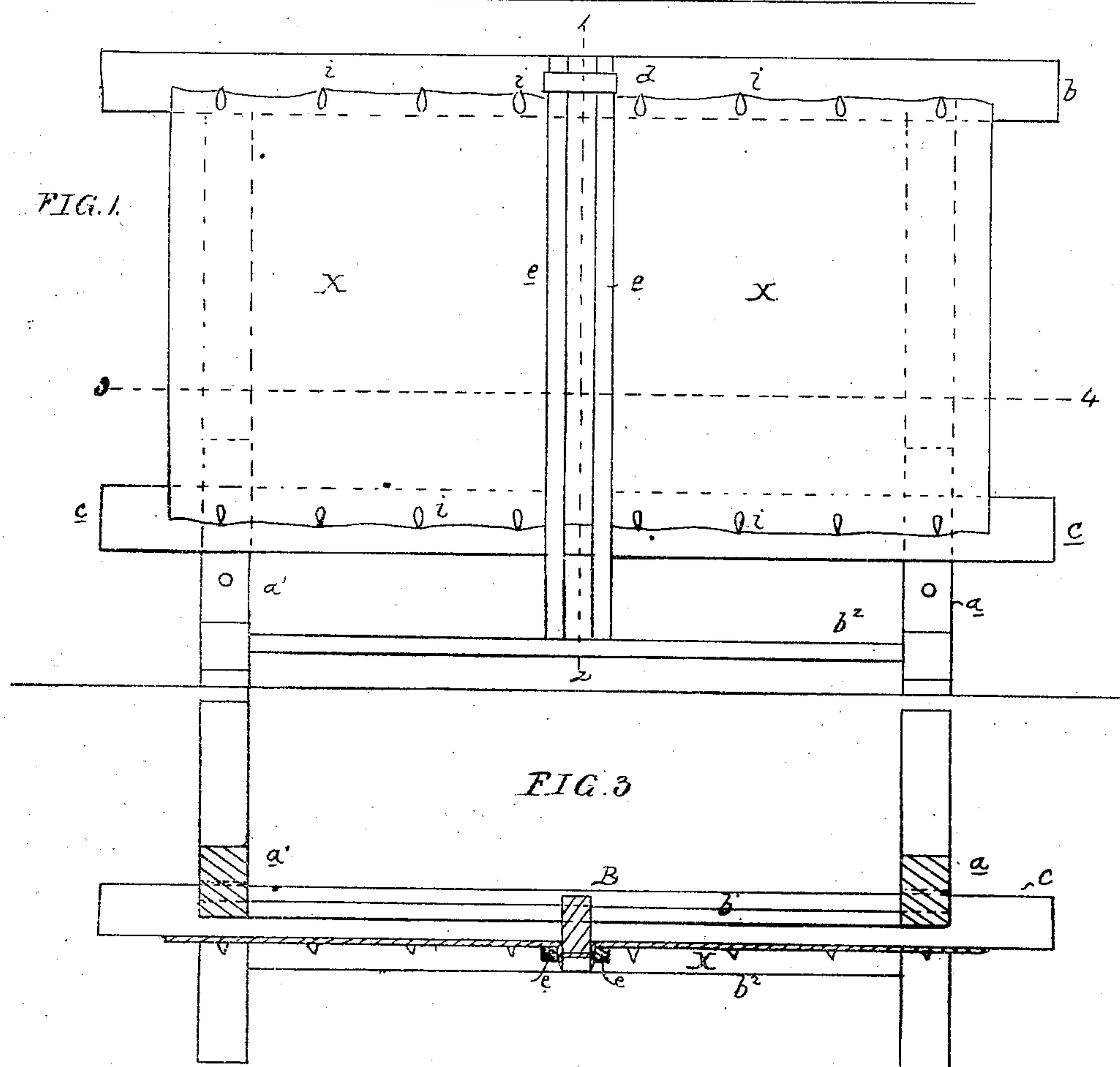


FIG. 3

WITNESSES { *Wm. Abbott Steel.*  
*John Parker* }

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# United States Patent Office.

SAMUEL L. FISKE, OF PHILADELPHIA, PENNSYLVANIA.

*Letters Patent No. 75,143, dated March 3, 1868.*

## IMPROVEMENT IN TENTER-BARS FOR SHAPING ARTICLES OF CLOTH.

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, SAMUEL L. FISKE, of Philadelphia, Pennsylvania, have invented an Apparatus for Shaping Articles of Cloth; and I do hereby declare the following to be a full, clear, and exact description of the same.

My invention consists of a tentering-frame, of the peculiar construction described hereafter, in combination with a former, by which portions of fabric (as, for instance, a horse-cloth,) stretched by the frame, may be shaped while being thus stretched, as set forth hereafter, thereby obviating the necessity of resorting to the ordinary tedious process of stitching several pieces together, and quilting the same.

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 front elevation of my apparatus for shaping articles of cloth.

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

Figure 3, a sectional plan on the line 3-4, fig. 2.

A is a tentering-frame, which consists of standards, *a a*, permanent cross-pieces, *b b<sup>1</sup> b<sup>2</sup>*, and an adjustable cross-piece, *c*, which is arranged to slide vertically on the frame. In sockets in the cross-piece *b<sup>2</sup>* fit the lower ends of detachable vertical bars, *e e*, the upper ends of which project through a staple, *d*, on the upper cross-bars *b*, and on the latter, and on the cross-piece *c*, are the usual tentering-hooks, *i i*. Between the bars *e e* projects one edge of a wooden strip or "former," B, recesses in the ends of which are adapted for the reception of the cross-piece *b<sup>1</sup>*, and of a rib, *n*, at the under side of the upper cross-piece, *b*, the front edge of this "former," which projects between the bars, being curved to the form shown in the drawing, or to any other desired form. After the bars *e e* have been removed, a piece of cloth, X, properly wetted, or fresh from the fulling-mill, is placed upon the tentering-hooks, and is stretched by moving downward the cross-piece *c*, and securing the latter by any suitable appliances. The bars *e e* are now secured in their positions at each side of the "former" B, as shown in the drawing, so as to draw the central portion of the cloth tightly across the curved edge of the said "former," the cloth remaining in this position until it is perfectly dry, when, on removing it from the frame, the central portion will be found to have acquired the shape corresponding to that of the former, which shape it permanently retains.

The apparatus, as illustrated in the drawing, is used for imparting the desired shape to the middle portion of a horse-cloth, the front edge of the former, B, being of a shape corresponding to that of the horse's back, which shape is imparted to the fabric in the manner described, a horse-cloth of the desired form being thus made of one piece of fabric, instead of several pieces, stitched together in the usual tedious manner, for effecting the purpose accomplished by my above-described simple apparatus. In like manner other shapes may be imparted to fabrics, by combining suitable "formers" with the tentering-apparatus.

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

The combination of the parallel tentering-bars *b c*, their hooks, *i*, the former, B, and detachable bars *e e*, the whole being constructed and arranged 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.

SAMUEL L. FISKE.

Witnesses:

CHARLES E. FOSTER,

W. J. R. DELANY.