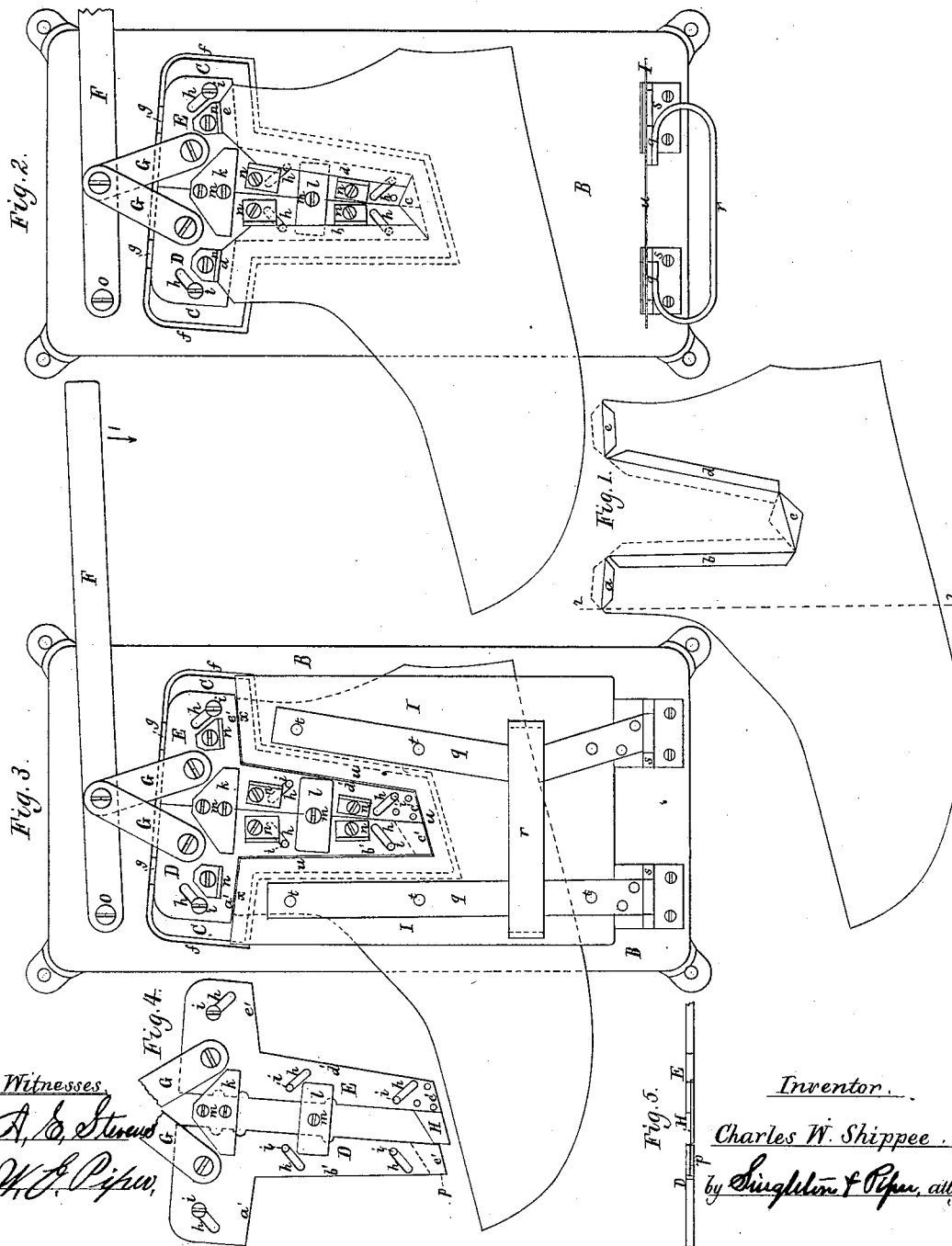


C. W. SHIPPEE.
MACHINE FOR GORING UPPERS.

No. 386,500.

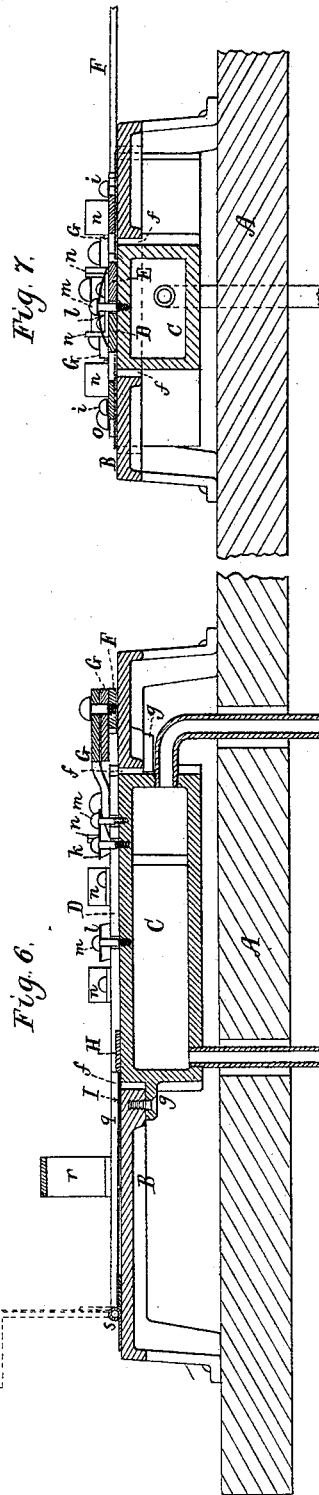
Patented July 24, 1888.



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UNITED STATES PATENT OFFICE.

CHARLES W. SHIPPEE, OF MILFORD, MASSACHUSETTS.

MACHINE FOR GORING UPPERS.

SPECIFICATION forming part of Letters Patent No. 356,500, dated July 24, 1888.

Application filed September 12, 1887. Serial No. 249,444. (No model.)

To all whom it may concern:

Be it known that I, CHARLES WILLIAM SHIPPEE, a citizen of the United States, residing at Milford, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Mechanism for Folding the Edges of the Gored Opening and also the Top Edge of the Lining of a Congress Boot; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

Figure 1 is a view of one-half of a lining of a Congress boot, the dotted lines in said view showing the form of the gored opening and the top of the leg portion of said lining before it has been acted upon by my folding mechanism, the full lines or portions *a b c d e* representing the folds after having been folded and pressed by said mechanism. Fig. 2 is a top view of my said folding mechanism, a lining being shown as applied thereto ready to be clamped in position by the clamping-plate, which is shown as turned up off or away from the table thereof. Fig. 3 is a top view of said folding mechanism, the clamping-plate in this figure being shown as down upon the table and on top of the lining. The folds shown in dotted lines in Fig. 1 are in this figure standing vertically or at right angles to the top of the table and against the edges *a' b' c' d' e'* of the folding and pressing plates. Fig. 4 is a top view of the folding and pressing plates, showing them as they appear when forced apart to fold and press the parts *a b c d e* over and upon the clamping-plate I. Fig. 5 is an end view of the folding and pressing plates, showing in edge view the folder and presser of the lower edge of the gored opening of said lining. Fig. 6 is a longitudinal section, and Fig. 7 a transverse section, of the folding and pressing mechanism.

The object of my invention is to lessen the cost of manufacture of Congress boots; and in carrying it out I arrange upon and secure to the top of a long bench or table a number or

series of iron platforms or tables having feet through which screws are introduced to confine said tables in position on the bench.

The drawings illustrate but one of said tables, (shown at B,) it having through its top an opening, *f*, to receive a chambered heater, C. Said heater is provided with pipes to admit steam from a steam boiler or generator to heat it; or it may be heated by any other suitable means. The heater is provided with ears *g*, through which screws are screwed into the table to secure it thereto. Arranged on the top of said heater are two folding and pressing plates, D E, each being provided with inclined slots *h*, which receive studs or screws *i*, secured to the top of the heater. Arched springs *k* and *l*, which bear at their ends on the top of the plates D E, are held in position by screws *m*, screwed into the top of the heater. Said screws admit of a variation of tension on the springs *k l*, so that the pressure of the plates on the folds of the linings may be varied, if desired. Gages *n* are secured by screws to the plates D and E, as shown, to serve as guides when placing a lining in position for being clamped upon the table, as seen in Fig. 2. There is pivoted to each plate D E and to a lever, F, a connecting-rod, G, said lever being pivoted to the table B at *o*. By means of said lever and connecting-rods the plates D E may be moved apart, as shown in Fig. 4. Secured to the plate E is a folder and presser, H, (see Fig. 4,) the lower surfaces of each being in the same horizontal plane. The plate H has but half the thickness of the plate E, and when the plates D and E are together, as seen in Fig. 3, the plate H enters a space, *p*, made to receive it in the under side of the plate D.

Pivoted to the table B at *s* are two flat bars, *q*, which are connected with each other by a handle, *r*, and to a clamping plate, I, by rivets *t*. Said plate I is provided with an opening, *u*, having the same form as the edges *b' c' d'* of the plates D and E, and the ends *x x* of the plate I conform in shape to the edges *a' e'* of the plates D and E, all as shown in Fig. 3.

The mechanism hereinbefore described for folding the edges of the opening and the top of the leg of the lining of a Congress boot, and also pressing the said folds, can be used for one

side only of said lining—viz., the left side—the mechanism for operating in like manner on the right side of said lining being arranged in the reverse from that shown and described; or, in other words, said mechanisms are arranged in pairs or rights and lefts.

The operation of folding the edges of the lining with the mechanism hereinbefore explained is as follows: The plates D and E being in the position as shown in Fig. 2 and the clamping-plate I turned up off the table, (see dotted lines in Fig. 6,) a half portion of a lining cut to the shape as shown in said figure, and having been previously dampened in the portions thereof that are to be folded and pressed, is laid on the table B, with the inner edges of its opening and the top edges of the leg portion resting against the gages *n*. The plate I is next turned down upon the lining, and as the edges of its opening *u* and its ends *xx* pass the edges *a' b' c' d' e'* of the plates D E, the lining will be carried down past said edges onto the heater C, and the portions which are to form the folds *a b c d e* will rest vertically against said edges. (See Fig. 3.) By grasping the lever F and moving it in the direction of arrow 1 the plates D and E will be moved into the position shown in Fig. 4, and the parts *a b c d e* of the lining will be turned over the ends *xx* and the edges of the opening *u* down upon the top of the plate and held in that position until sufficiently pressed. The plates D and E are next, by means of the lever F, to be returned to their first position, and the plate I raised off the table and the lining which is attached to said plate removed from it. The operation of folding and pressing the folds of a lining is now completed.

Having described my invention, what I claim is—

1. The table B, secured to a bench and provided with an opening in its top to receive the

chambered heater C, secured thereto and in said opening, and provided with pipes to convey steam from a steam boiler or generator into it to heat it, in combination with the folding and pressing plates D E, substantially as shown and described.

2. The table B, secured to a bench and provided with an opening in its top to receive a chambered heater, C, secured thereto and in said opening, and provided with pipes to convey steam from a steam boiler or generator into it to heat it, in combination with the folding and pressing plates D E, provided with inclined slots to receive studs projecting from the top of said heater to guide said plates in their movements, the folder and presser H, springs *k l*, screws *m*, gages *n*, connecting-rods G G, and lever F, pivoted to the table, all essentially as shown and set forth.

3. The table B, secured to a bench and provided with an opening in its top to receive the chambered heater C, secured thereto and in said opening, and provided with pipes to admit of its being heated, in combination with the folding and pressing plates D E, provided with inclined slots to receive studs or screws projecting from the top of said heater to guide said plates in their movements, the folder and presser H, the springs *k l*, and screws to vary the tension of said springs, gages *n*, connecting-rods G G, and lever F, pivoted to the table, the plate I, provided with the opening *u* and secured to the bars *q*, connected by a handle, *r*, said bars being pivoted to the table B, all as shown, and substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES W. SHIPPEE.

Witnesses:

F. H. HENRY,
S. N. PIPER.