

(No Model.)

2 Sheets—Sheet 1.

L. CÔTÉ.

MACHINE FOR MARKING SHOE VAMPS.

No. 348,514.

Patented Aug. 31, 1886.

Fig. 1.

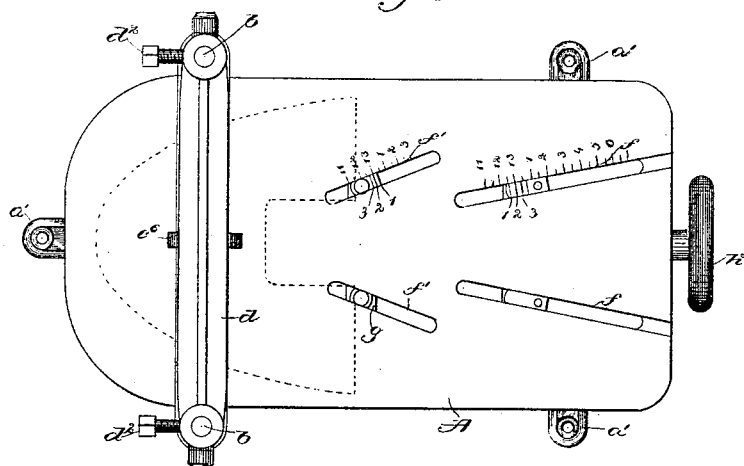


Fig: 2.

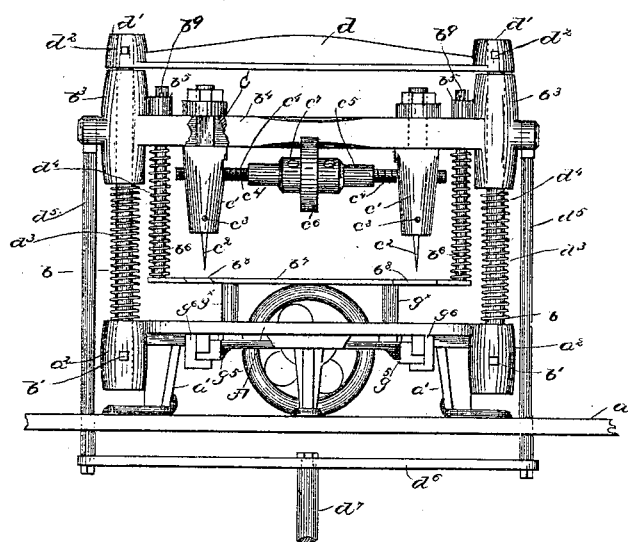


Fig: 3.

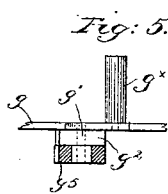


Fig: 5.

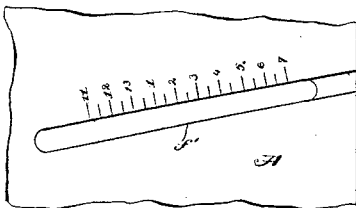
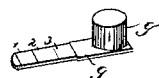


Fig: 4.



Witnesses
Thomas Hobday.
George W. Moulton.

Inventor:
Louis Côté.
by Crosby & Gregory attys.

(No Model.)

2 Sheets—Sheet 2.

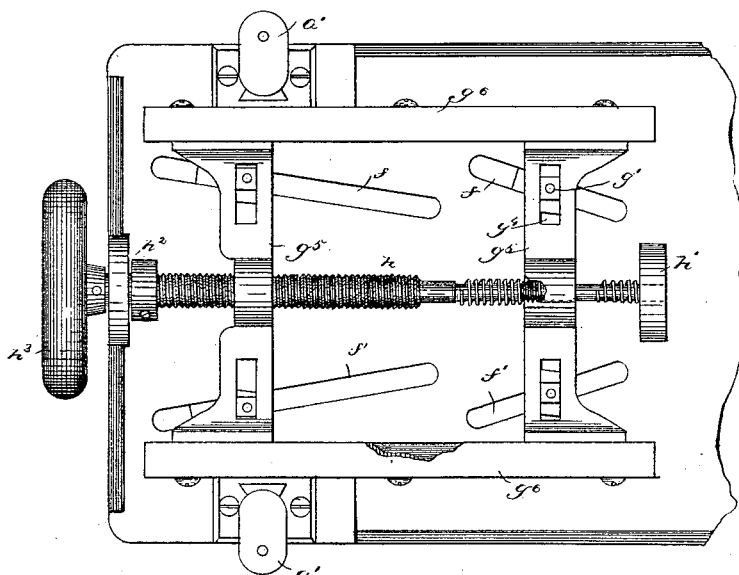
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Fig. 6.



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UNITED STATES PATENT OFFICE.

LOUIS CÔTÉ, OF LYNN, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO
FREDERIC A. BARBER, OF SAME PLACE.

MACHINE FOR MARKING SHOE-VAMPS.

SPECIFICATION forming part of Letters Patent No. 348,514, dated August 31, 1886.

Application filed June 1, 1886. Serial No. 203,762. (No model.)

To all whom it may concern:

Be it known that I, LOUIS CÔTÉ, of Lynn, county of Essex, State of Massachusetts, have invented an Improvement in Machines for Marking Vamps for Tips, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention relates to that class of machines employed to mark the vamps of shoes to designate the proper positions for the tips to be secured to said vamps; and my invention has for its object to provide a machine of improved construction, whereby a number of vamps may be marked at one operation, and whereby vamps of various designs and sizes may be accurately marked.

My invention consists, essentially, of a reciprocating cross-head, adjustable carriers supported thereby and provided with marking devices, and means to adjust said carriers, combined with a bed-plate having slots, and with indicating devices traveling therein, to enable vamps of different sizes and designs to be marked.

Other features of my invention will be hereinafter described, and pointed out in the claims at the end of this specification.

Figure 1 is a top view of a vamp-marking machine constructed in accordance with my invention; Fig. 2, a front elevation of Fig. 1, looking toward the right; Fig. 3, a portion of the bed-plate, enlarged to show the scale indicating the various sizes; Figs. 4 and 5, details to be referred to; and Fig. 6, an under side view of Fig. 1 partially broken off.

The bed A of the machine is herein shown as supported above the bench or table *a* by legs *a'*, screwed or otherwise fastened to said table.

The bed-plate A, near its front end, has two downwardly-projecting hubs, *a''*, one on each side of said bed-plate, which are herein shown as cast integral with said bed-plate, each of said hubs receiving in it a rod, *b*, secured by set-screw *b'*. Each rod *b* receives upon it a sleeve, *b''*, at opposite ends of the cross-head *b'*, provided with guides *b'''* for rods *b''*, connected at their lower ends by a cross-plate, *b''''*, having slots *b'''''*, the rods *b''* being adapted to be moved upward in the guides *b'''*, integral

with the cross-head *b'*, by the downward movement of said cross-head, as will be described, said rods *b''* being limited in their downward movement by pins *b''''*, which rest upon the guides *b'''* when the bar *b'* is in its normal position. The cross-bar *b'*, near the sleeve *b''*, is provided with longitudinal slots *c*, (see Fig. 2,) in which are secured carriers *c'* for the marking devices, (herein shown as awls *c''*, secured to said carriers by screws *c'''*,) said carriers being adapted to be moved laterally by means of a right-and-left screw-rod, *c''''*, traveling in a threaded transverse opening in each carrier. The screw-rod *c''''* is smooth for a part of its length near its center, and has a hub, *c'''''*, provided with a milled disk, *c''''''*, (herein shown as secured to it by screws *c'''''''*,) rotation of said milled disk in one direction causing the carriers *c'* to be moved laterally toward the center, and rotation in the opposite direction moving said carriers toward the sides of the machine. The rods *b* also support above the sleeves *b''* the cross-bar *d'*, having guides *d''*, through which the rods *b* are extended, said rods being secured in said guides by screws *d'''*.

The rods *b* are each encircled by a spiral spring, *d''''*, upon which the lower ends of the sleeves *b''* rest, and the rods *b''* are also encircled by spiral springs *d'''''*. The sleeves *b''* are connected to links *d''''''*, one at each side of the machine, said links being herein shown as extended through the table and having their lower ends connected by a rod, *d'''''''*, which rod is operatively connected by a rod, *d''''''''*, with a foot-treadle. (Not herein shown, but which may be of any ordinary construction.)

When the vamps to be marked have been placed in position upon the bed-plate, the treadle is depressed by the operator, thereby causing the descent of the sleeves *b''*, cross-head *b'*, carriers *c'*, and awls *c''*, the awls passing through the vamps and into slots in the bed-plate, thereby marking said vamps at the points where the toe-tip is to be attached. As the treadle is depressed to force the awls *c''* through the vamps the cross-bar *b'* in its descent compresses the springs *d''''*, causing the rods *b''* to slide in the guides *b'''* of said cross-bar. After the vamps have been marked the pressure upon the treadle is removed, allowing the springs *d''''* on the rods *b* to restore the

sleeves b^3 and cross-head b^4 to their normal positions, thereby withdrawing the awls c^2 from the vamps. As the awls are withdrawing the vamps are held in place by the cross-plate b^7 , acted upon by the spring d^4 on the rods b^6 .

In order that vamps of various sizes may be marked the bed-plate is herein shown as provided with two sets of preferably-converging slots, f, f' , the right slot of each set being herein shown as marked with a scale (see Fig. 3) to indicate different-size shoes.

In order that vamps might be marked to receive tips of various designs a plate, g , (see Fig. 5,) is adapted to be moved in the slots f, f' , there being a plate for each slot. The plates g are herein shown as fastened by pins g' to carriers g^2 , (see Figs. 5 and 6,) said carriers having a stud fitted into and adapted to be moved in ways g^4 in carriages g^5 , (see Fig. 6,) said carriages being reciprocated in guides g^6 by means of a screw-rod, h , inserted through a threaded opening in each carriage, and having bearings in boxes h' h^2 at opposite ends of the machine, said rod having a handle, h^3 , by which it may be turned to move said carriages, and thereby adjust the position of the plates g in the slots f, f' . Each plate g has an opening, into which is inserted a pin or post, g^x , against which the rear edges of the vamps are placed, as shown in dotted lines, Fig. 1. The plates g are herein shown as provided with marks 1 2 3, to indicate three varieties of designs of shoes.

When it is desired to mark a vamp of a particular size for the reception of a tip of a particular design, the handle h^3 will be rotated until the mark on the plate g , indicating the design, registers with the mark at the side of the slots f, f' , indicating the size of the shoe.

When long vamps are to be marked, the pins or posts g^x will be removed from the plates g in the slots f' , and be inserted in the openings in the slides in the slots f .

I claim—

1. In a machine for marking vamps for shoes, a reciprocating cross-head, adjustable carriers supported by said cross-head, means, substantially as described, to adjust said carriers, and marking devices secured to said carriers, combined with the bed-plate having slots, and with indicating devices traveling in said slots, whereby vamps of different sizes and designs may be marked, substantially as described.

2. In a machine for marking vamps for shoes, a reciprocating cross-head, adjustable carriers supported by said cross-head, means, substantially as described, to adjust said carriers, and marking devices secured to said carriers, combined with the bed-plate having slots, indicating devices in said slots, and means, substantially as described, to move said indicating devices in said slots to enable vamps of different sizes and designs to be marked, substantially as described.

3. The reciprocating cross-head, adjustable carriers, and marking devices supported by said cross-head, the plate b^7 , provided with slots through which the marking devices pass into the vamps as the cross-head is moved down, the rods b^6 , guides b^5 for said rods, combined with means, substantially as described, to move the cross-head down, to place the plates b^7 in contact with the vamps to be marked, and with means, substantially as described, to press said plates against said vamps when the cross-head is moved upward, and the marking devices thereby withdrawn from the vamps.

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

LOUIS CÔTÉ.

Witnesses:

GEORGE J. CARR,
GEORGE W. MOULTON.