

W. BAYHOUSE.
LASTING-MACHINE.

No. 179,469.

Patented July 4, 1876.

Fig. 1.

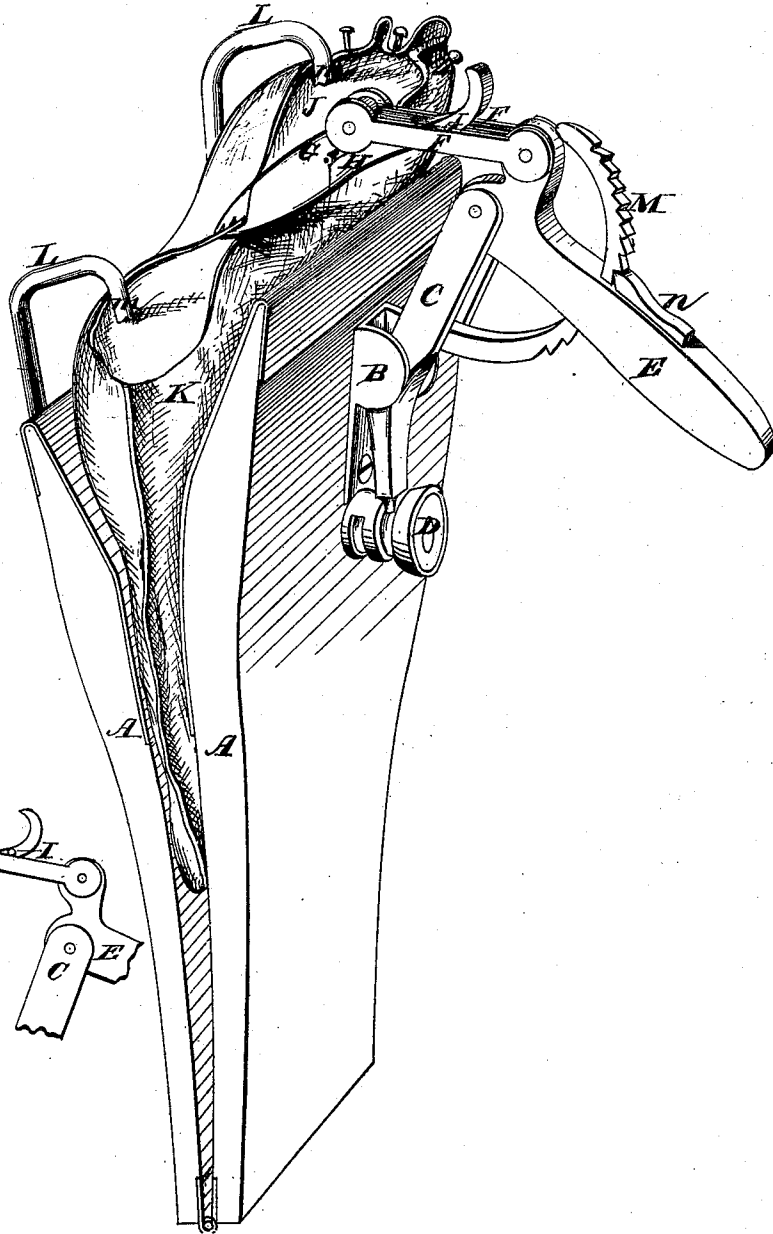
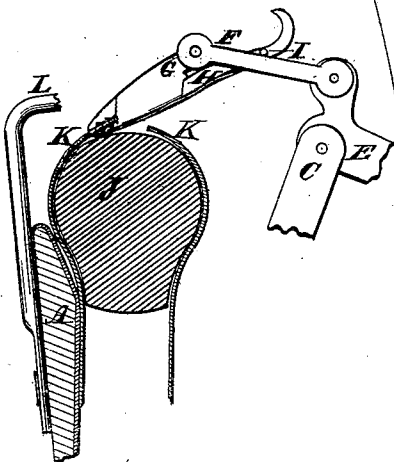


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM BAYHOUSE, OF BOISE CITY, IDAHO TERRITORY.

IMPROVEMENT IN LASTING-MACHINES.

Specification forming part of Letters Patent No. **179,469**, dated July 4, 1876; application filed February 29, 1876.

To all whom it may concern:

Be it known that I, WILLIAM BAYHOUSE, of Boise City, Ada county, Idaho Territory, have invented a Lever Lasting-Clamp for Boots and Shoes; and I do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use my said invention without further invention or experiment.

My invention relates to an improved mechanism for lasting boots and shoes; and it comprises a means for holding the boot in position while the edge of the leather is seized by pinchers operating in a novel manner, and drawn into place by means of a peculiar and powerful lever, which is mounted upon a fulcrum with a screw adjustment.

Referring to the accompanying drawings for a more complete explanation of invention, Figure 1 is a perspective view of my device.

A A are the two sides of my clamp for holding the last with the leather upon it. The inner faces of these sides are beveled off, as shown, and faced with leather. They may be from four to eight inches long, and in the middle are slightly concaved, one being also somewhat shorter than the other. The corners of the shorter jaw may be cut away, if desired. Upon the outside of the longer jaw is secured a plate, having lugs B, which serve as a support for the lever-arm C. This arm is slightly curved, as shown, and its lower end enters the threads of a screw, D, by which it is adjusted, so that the opposite end is moved nearer to or farther from the clamp, as may be desired. To the outer end of the arm C is pivoted the knee-lever E, the long arm serving as an operating-handle, while the short arm has the links F attached to it. The opposite ends of the links are connected with the upper arm G of a forceps or pinchers, and the lower arm H is extended so as to pass between the links, where a lug or pin, I, rests upon the top of the links.

The operation will be as follows: The last J, with the welt K upon it, is placed between the jaws A A of the clamp, and is held in place by two adjustable arms, L. These

arms are secured to the outside of the longer jaw A, and may be moved about their points of support. The opposite ends *m* curve over, so that they press upon the last near each end, and thus hold it in place. The lever E is then raised to a perpendicular position, so that the pinchers can grasp the edge of the leather upon the opposite side.

When the lever E is drawn down the links F will pull upon the arm G, and the arm H will be pressed up by the action of the lug or pin I, which rests upon the links. This closes the jaws of the pinchers more firmly for all the additional power which is brought to bear upon the lever.

When the lever is drawn down as far as is necessary it is held by means of a curved rack, M, which is secured to the arm C, and passes through the lever E, so that the pawl *n* upon the lever will engage the teeth upon the rack, and hold it at any desired point. After the boot is lasted upon that side, release it and turn it around in the clamp, so as to last the other side.

It will be seen that the arms L may be so moved as to give an opportunity to peg or tack the boot from toe to heel without putting in lasting-tacks.

The movement of the pinchers, being a circular one, will draw the leather over smoothly without wrinkling the insole, and it will lie flat upon the insole. The upper can be fastened before the pinchers are relaxed, and will thus be prevented from slackening after they are taken off.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The clamps A A, with their curved beveled edges, and provided with the arms L for holding the last, in combination with a device for stretching or lasting the upper-leather, substantially as herein described.

2. The knee-lever E, with the links F, connected with the arm G of a forceps or pinchers, and acting upon the arm H by means of the pin I, which rests upon the links, so that the action of the lever will close the pinchers, substantially as herein described.

3. The lever E, for operating the pinchers

and lasting the leather, in combination with the adjustable fulcrum-arm C, substantially as herein described.

4. The arm C, supported as shown, and having one end formed into a fulcrum for the lever E, while the opposite end is moved and adjusted by the screw D, substantially as herein described.

5. In combination with the fulcrum-arm C and the operating-lever E, the curved rack M and the pawl n, substantially as and for the purpose herein described.

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Witnesses:

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