

(No Model.)

H. P. ALDRICH.
LASTING PINCHERS.

No. 322,338.

Patented July 14, 1885.

Fig:1.

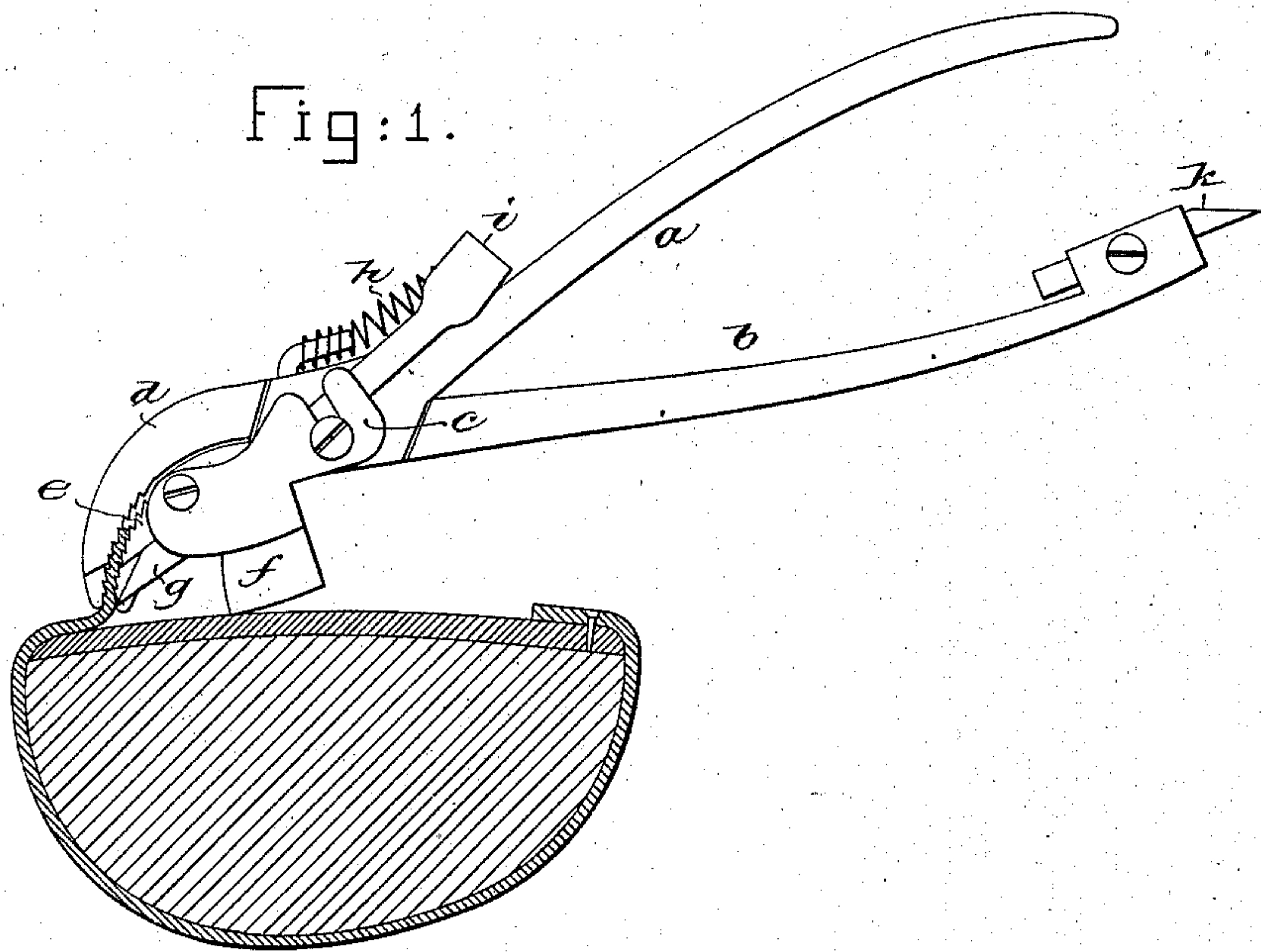


Fig:2.

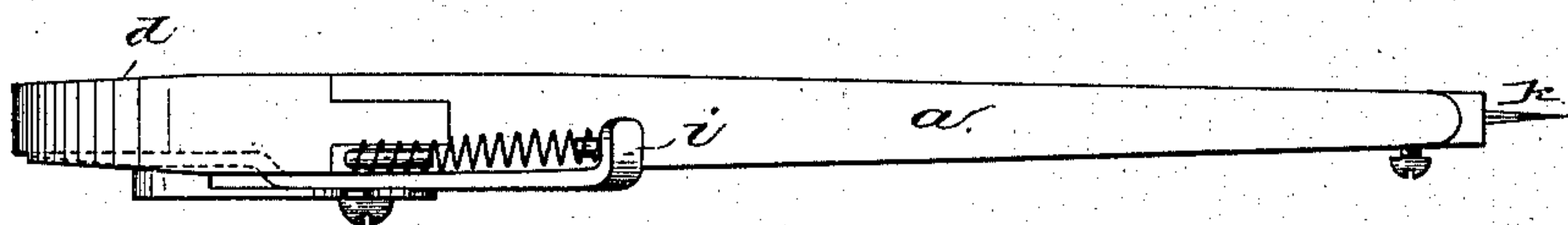
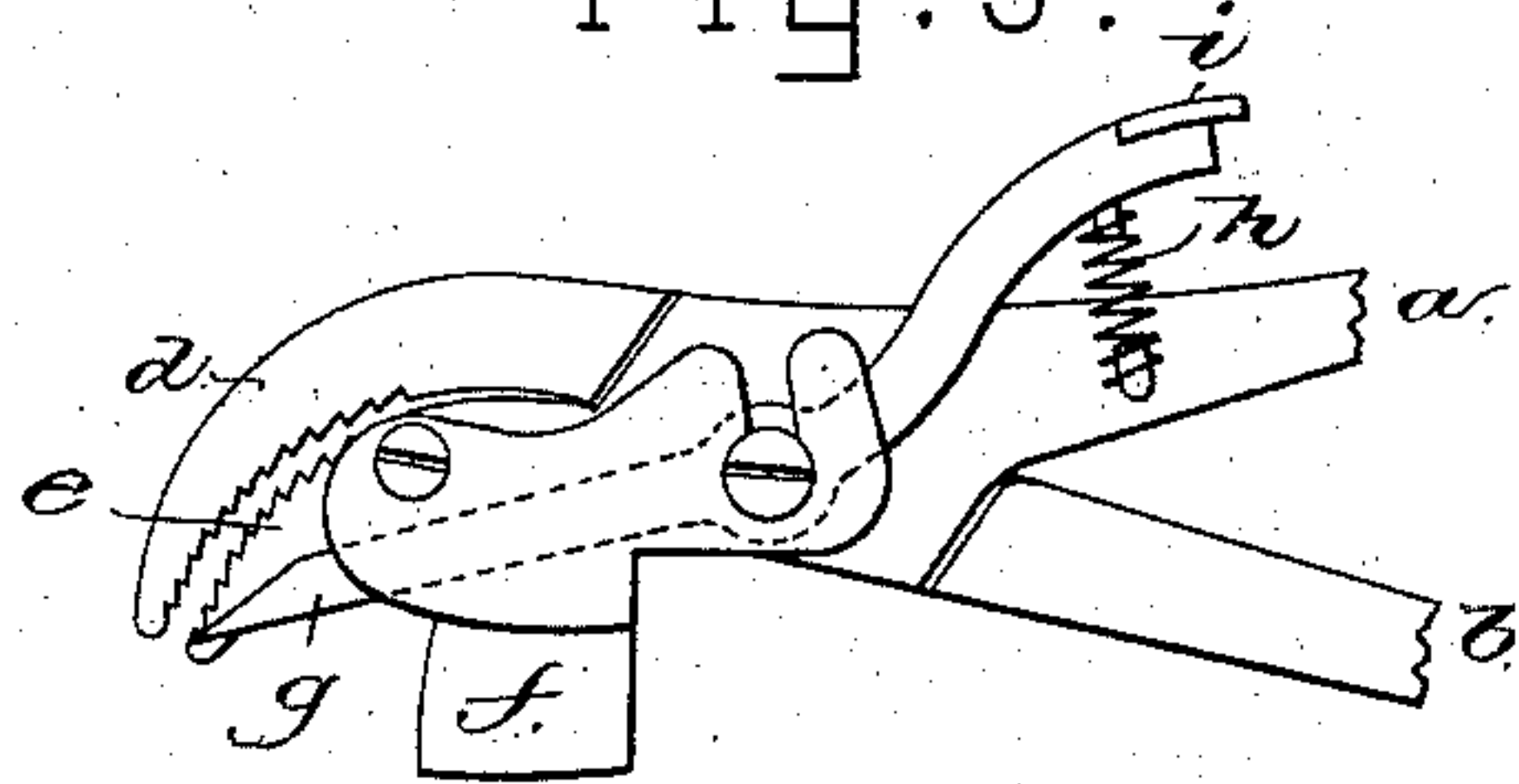


Fig:3.



Witnesses.

Arthur Lipperlen.
John P. C. Printersh

Inventor.

Hosea P. Aldrich
by Crosby & Gregory attys.

UNITED STATES PATENT OFFICE.

HOSEA P. ALDRICH, OF BOSTON, MASSACHUSETTS.

LASTING-PINCHERS.

SPECIFICATION forming part of Letters Patent No. 322,338, dated July 14, 1885.

Application filed October 27, 1884. (No model.)

To all whom it may concern:

Be it known that I, HOSEA P. ALDRICH, of Boston, county of Middlesex, and State of Massachusetts, have invented an Improvement in Lasting-Pinchers, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

My invention relates to pinchers such as employed by boot and shoe makers in lasting, for drawing the upper tightly over the last and inner sole tacked thereon, and has for its object to facilitate the operation and enable the edge of the upper to be laid more evenly upon the inner sole than is usually effected. In lasting boots and shoes the edge of the upper drawn over upon the inner sole is too full to lie evenly on the bottom of the last, and has to be plaited or notched or slit, so that one portion will overlies another. This is sometimes provided for by slitting the edge of the upper by a knife before lasting or during the process of lasting.

My invention consists in providing the usual pinchers, by which the edge of the upper is grasped and drawn over the inner sole, with a cutter, which may be operated by the hand holding the pinchers, to slit the leather held by the pinchers at the proper point to enable it to be laid evenly upon the upper. As shown in one instance of my invention, the cutter has a sliding movement in a suitable guide in the pinchers, its edge having the proper relation to the jaws of the pinchers to pass through the leather held thereby with an effective drawing cut.

Figure 1 is a side elevation of a pair of lasting-pinchers provided with a cutting device embodying this invention, the last, inner sole, and upper being shown in section; Fig. 2, a plan view of the pinchers, and Fig. 3 a modification showing the cutter pivoted upon the pinchers.

The pinchers consist, essentially, of two members, *a b*, pivoted together at *c*, and provided with curved serrated jaws *d e*, which firmly grip the leather when the handle portions of the members are pressed together by the grasp of the hand of the operator. The lower jaw, *e*, is provided with a projection or

fulcrum-piece, *f*, which bears upon the inner sole and serves as a fulcrum upon which the pinchers rock to draw up the leather with strong leverage or prying action over the last and inner sole.

In order to cut or slit the leather from the edge of the upper, in order that the portion at one side of the cut may overlap the portion at the other side, and thus take up the fullness of the edge of the upper, which would otherwise prevent it from lying evenly on the inner sole, the pinchers are provided with a cutting device, *g* (shown in Figs. 1 and 2) as having a sliding movement in a groove or recess in the side of the pinchers, the said cutter being acted upon by a retracting-spring, *h*, by which it is normally held with its cutting-edge wholly back of the face of the jaw *e*, as shown in full lines, Fig. 1. The said cutting device is provided with a projection, *i*, in proper position with relation to the handle portion of the pinchers to be easily engaged by the thumb of the hand holding the said pinchers, so that the said cutting device may be forced forward through the leather while held by the jaws, its cutting-edge being preferably inclined with relation to the faces of the jaws while holding the leather, as shown, so that it acts on the leather with an effective drawing cut. This operation of cutting the leather may be performed while in the act of drawing the leather over the upper by the pinchers, and consequently without the expenditure of time that is usually required for slitting the leather when done at a separate operation, as heretofore practiced.

The pinchers are, preferably, also provided with a cutter, *k*, fixed upon one of the members, so that it may be used to cut the leather at the places not exactly adjacent to the part that is to be held by the jaws, if required, such cutting operation being effected without the laying down of the pinchers and taking up of another tool, and then resuming the pinchers, which would ordinarily occur and involve a loss of time.

In Fig. 3 I have shown a modification of my invention wherein the blade *g* is pivoted, whereas in Figs. 1 and 2 the blade shown is adapted to slide. I do not desire to limit my

invention to the exact form of blade described, as the same may be modified, and yet be adapted to cut or slit the edge of the material while held clamped between the jaws of pinchers, the cut being made close to the jaws of the pinchers.

I claim—

1. The combination of the jaws of a pair of pinchers to grasp and hold leather, with a cutting device mounted thereon and having an independent movement with relation to the jaws, to cut the material while held by the jaws, substantially as described.

2. The pivoted members, *e a* and *d b*, constituting the jaws and handles of a pair of pinchers, combined with a cutting device, *g*, having its cutting-edge arranged to act on the material while held by the jaws, and a handle portion adapted to be engaged and operated by a portion of the hand of the operator grasping the handles of the pinchers, substantially as described.

3. The lasting-pinchers having handles to be grasped by the hand and jaws to grip the edge of a boot or shoe upper, combined with the cutting device, substantially as described, connected with the said pinchers and adapted to be operated by the hand grasping them, the edge of the said cutting device being inclined with relation to the jaws, whereby it acts on the material held by them with a drawing cut, substantially as described.

4. The lasting-pinchers combined with a cutting device, substantially as described, and retracting-spring therefor, whereby it is normally held retracted from the space between the jaws, substantially as described.

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

HOSEA P. ALDRICH.

Witnesses:

W. H. SIGSTON,

B. J. NOYES.