

F. HENDERSON.

Shank Laster.

No. 104,733.

Patented June 28, 1870.

Fig. 3.

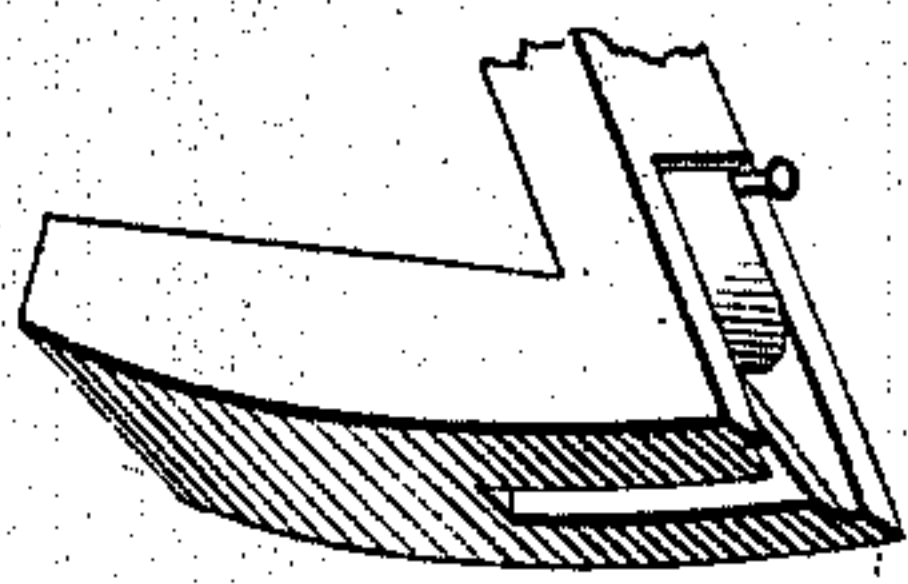


Fig. 2.

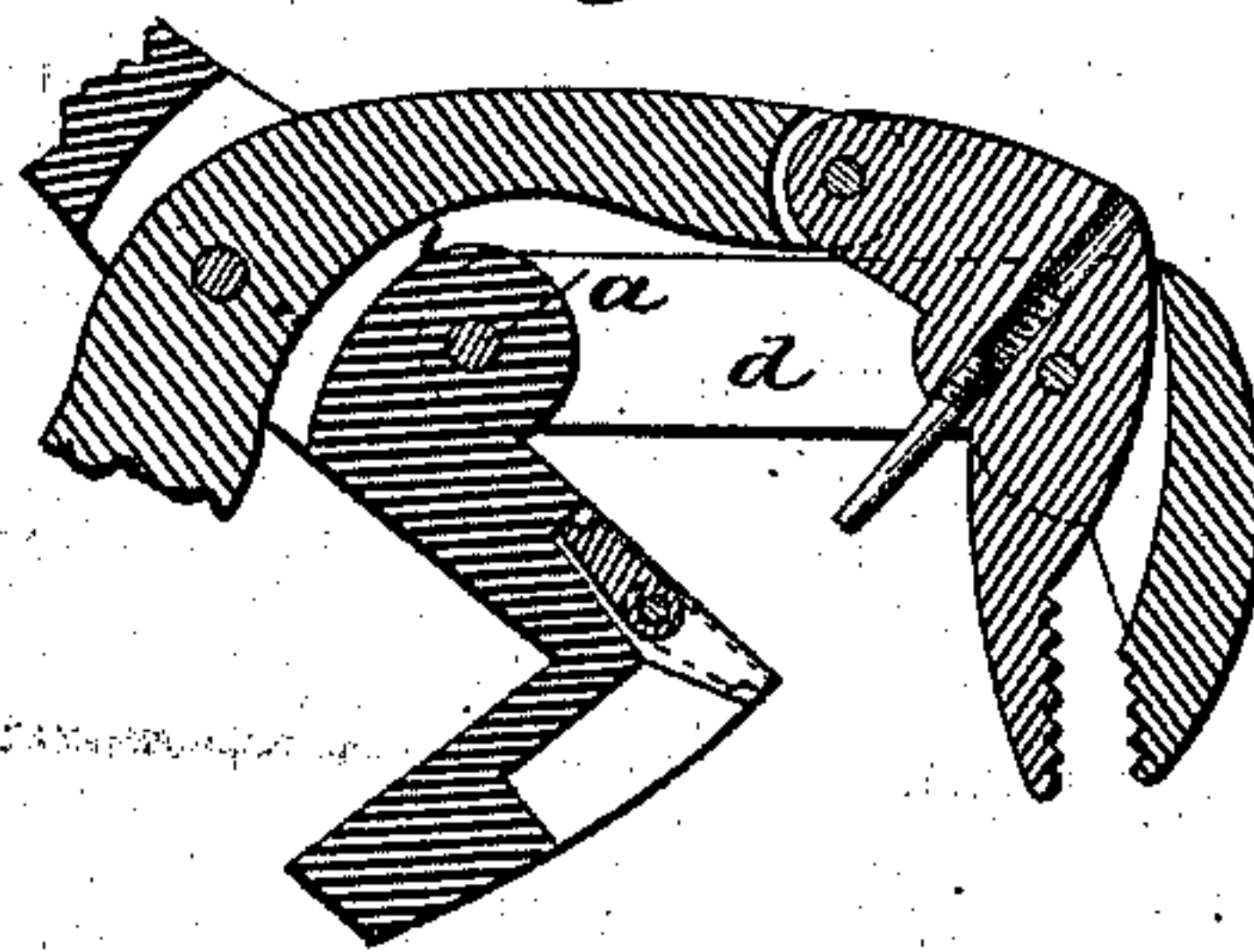
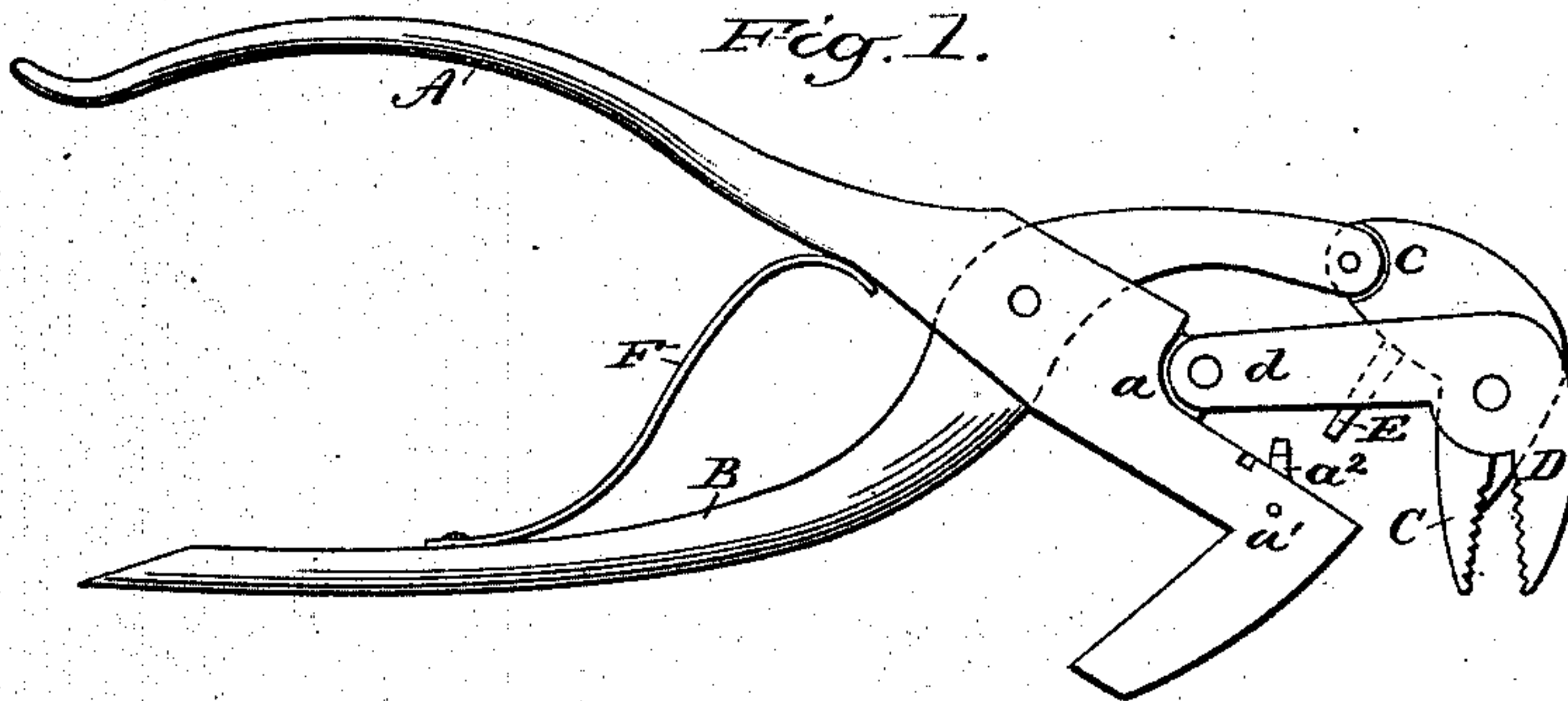


Fig. 1.



Witnesses:

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# United States Patent Office.

FREDERICK HENDERSON, OF MARIETTA, ASSIGNOR TO HIMSELF AND  
GEORGE H. BELL, OF PORTSMOUTH, OHIO.

*Letters Patent No. 104,733, dated June 28, 1870; antedated June 23, 1870.*

## IMPROVED SHANK-LASTER AND PUNCH.

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, FREDERICK HENDERSON, of Marietta, in the county of Washington and State of Ohio, have invented a new and useful Improvement in Combined Pincher, Punch, and Shank-Laster; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawing and to the letters of reference marked thereon.

This invention has for its object the production of a tool which shall be able in itself to perform all the offices of a punch, shank-laster, and pinchers; and to that end,

It consists of a compact arrangement of the various necessary parts, the details of which will be fully described hereinafter.

In the drawing—

Figure 1 represents a side elevation of my improved tool;

Figure 2, a partial sectional view; and

Figure 3, a perspective of the head  $a^1$  and flap.

To enable others skilled in the art to make and use my invention, I will now proceed to describe fully its construction and operation.

A represents the upper handle of my improved tool, which is provided with a slot through which passes the handle B, as shown. It is provided also with the eye  $a$  and head  $a^1$ .

The handle B is pivoted within the slot of the handle A, and, extending forward, is attached to the arm  $c$  of the lower jaw C of the pinchers.

D represents the upper jaw of the pinchers, which is provided with arms  $d$ , pivoted to eye  $a$  of the handle, as shown.

E represents the punch, which moves, when the tool is used for other purposes, in a depression in the head  $a^1$ . When used for a punch, however, the flap  $a^2$  is swung forward, and a base is thus formed for the punch to act upon.

A spring is placed at the end of the flap, for the purpose of securing it in either position.

F represents a spring, by means of which the handles are ordinarily kept separated.

The operation of my improved tool, when used for a punch or pinchers, will be readily understood, and need not be particularly described here. When used as a shank-laster, the operation is as follows:

The leather is first grasped with the pinchers, and drawn down to the last. The grasp is now slightly relaxed, and the head  $a^1$  thus permitted to move further over to the opposite side of the last, to obtain a new purchase. A series of these movements is necessary to bring the leather to its place. The head is enabled to move slightly, without the jaws of the pinchers being moved, because it is further removed from the pivoting or swinging point, and it necessarily moves in the arc of a large circle, while the arms of the jaw D are operated on the line of a small circle. A movement sufficient to enable the head to bear upon a new point is not sufficient to open the pinchers.

The tool herein described is compact in its arrangement, and simple in all its parts.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent of the United States, is—

1. The swinging flap  $a^2$ , when combined with a punch, as described, for the purpose set forth.

2. The tool described, consisting of the handles, jaws, and punch, when combined and arranged as described, for the purpose set forth.

This specification signed and witnessed this 3d day of December, 1869.

FREDERICK HENDERSON.

Witnesses:

HENRY BOHL,  
JAMES RIGBY.