

(No Model.)

W. CRONK.  
PLIERS AND STAPLE PULLER.

No. 597,896.

Patented Jan. 25, 1898.

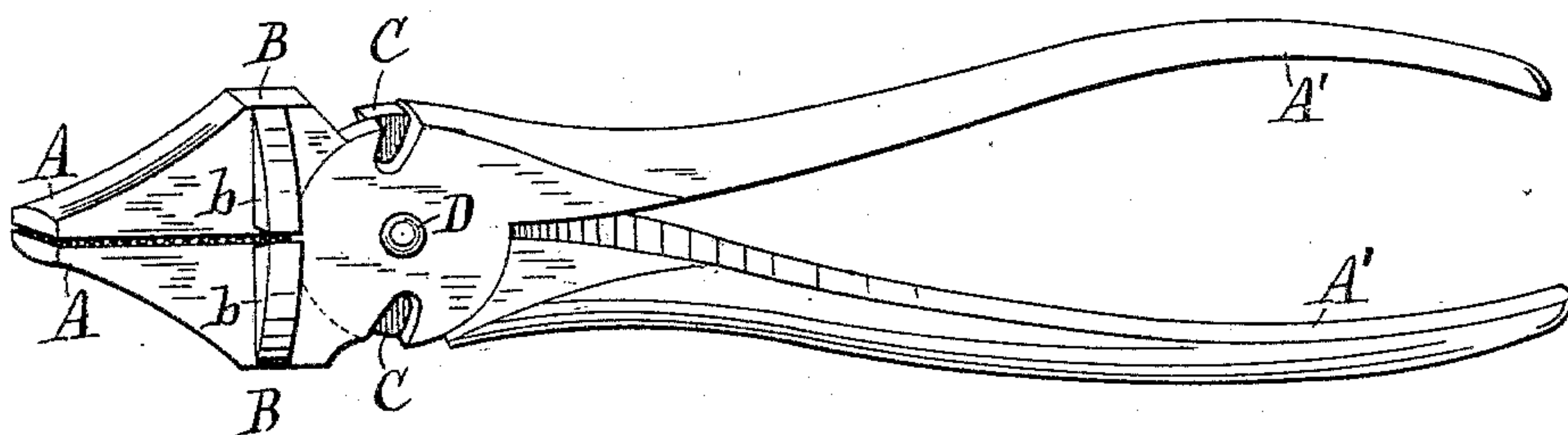


Fig. 1

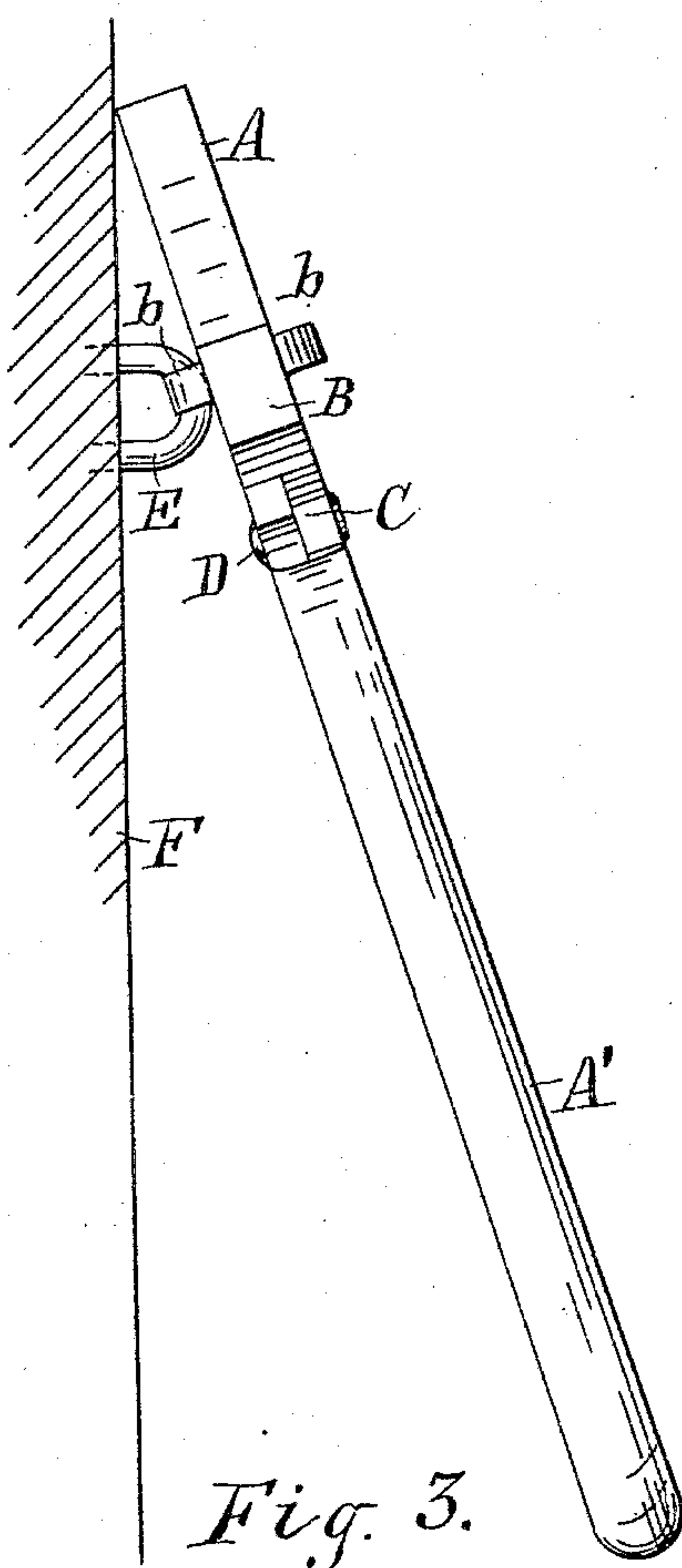


Fig. 3.

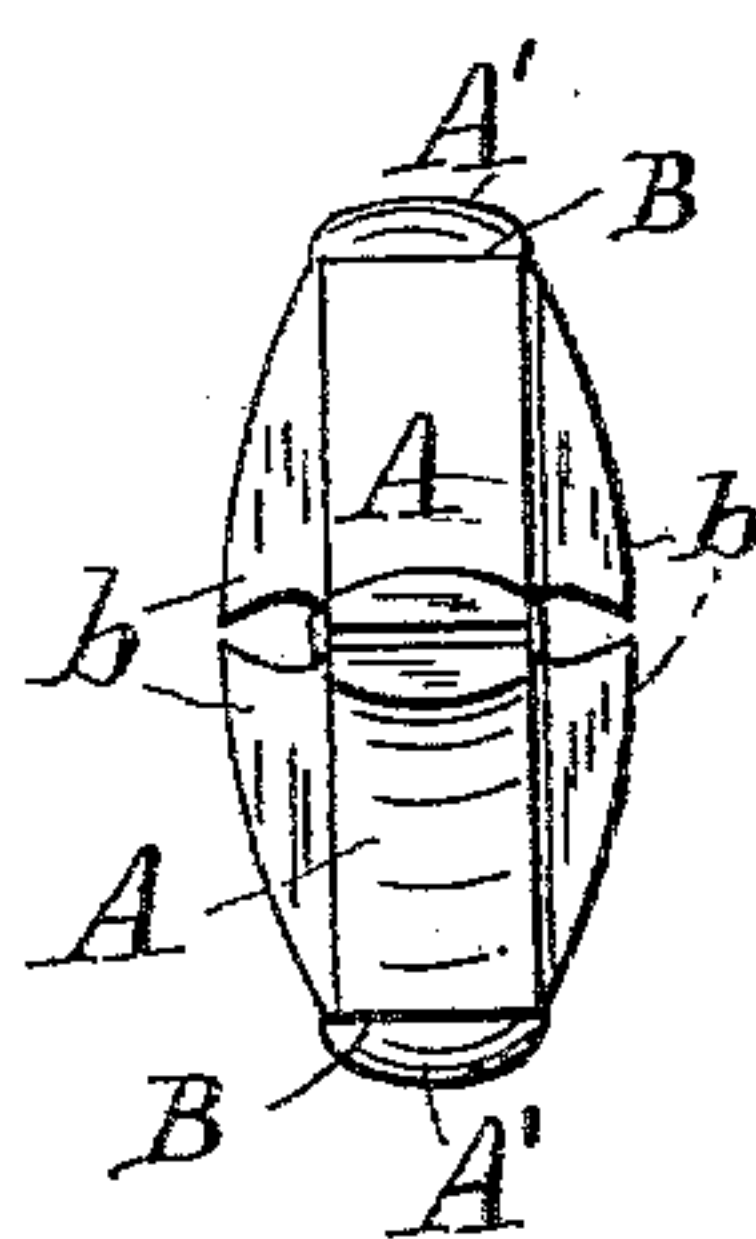


Fig. 2.

Witnesses.

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# UNITED STATES PATENT OFFICE.

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## PLIERS AND STAPLE-PULLER.

SPECIFICATION forming part of Letters Patent No. 597,896, dated January 25, 1898.

Application filed February 27, 1897. Serial No. 625,330. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM CRONK, of Montour Falls, in the county of Schuyler, in the State of New York, have invented new and useful Improvements in Pliers and Staple-Pullers, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

My invention relates to improvements in combination pliers and staple-pullers; and the object is to provide a simple and efficient device of this nature.

In the drawings hereto annexed and forming a part of this specification, Figure 1 is a perspective view of my invention. Fig. 2 is an end view showing the jaws closed, and Fig. 3 is a side view of the pliers engaged with a staple and in a position to withdraw the staple from a wall.

My invention, it will be seen, is combined with a device which includes several tools—namely, flat pliers, hammer, and wire-cutter. In fact there are shown in the device in the drawings a pair of hammer-faces—one on each jaw of the pliers—and a pair of shear wire-cutters on opposite sides of the bolt or rivet. The wire-cutters are in themselves old and well known and need not be described herein in detail.

Referring specifically to the drawings, A A indicate the plier-jaws, which are flat and preferably roughened on their clamping-surfaces and tapered on their outer surfaces, as usual in flat pliers. Each jaw is provided with a flat hammer-face B B, which allows the pliers to be used as a hammer whichever side is uppermost without changing its position in the hand.

C C are the wire-cutters, located on each side of the bolt or rivet D, by which the pliers A A, with their handles A' A', are secured together. Said cutters are each formed by a pair of recesses in the edges of the parts which coincide with each other when the jaws are open and pass each other while closing the jaws in the usual and well-known manner. Each jaw and handle is made in one piece, the portion of the handle where it is pivoted to the other handle being recessed and interlocked with the opposite handle, the handles being crossed at their interlocking

points. The cutters may be of the same size or of different sizes and the pliers may be round-nosed pliers without departing from my invention.

On the flat outer sides of the pliers, between the rivet D and the ends of the noses, are ribs *b b*, which extend at right angles to the clamping-surfaces of the pliers and open and close with the pliers. The clamping or gripping ends of these ribs are inclined or concaved for the purpose of gripping a staple without cutting it.

I preferably provide the pliers with two sets of these staple-pulling ribs *b b*, although but one set may be provided on one side of the pliers.

Fig. 3 of the drawings shows one pair of ribs *b b* in engagement with a staple E.

By pulling the handles A' away from the wall F, in which the staple is fixed, the latter will then be withdrawn easily, as the ends or noses of the pliers bear upon the wall above the staple and form a fulcrum.

The outer surfaces of the ribs *b b* are preferably curved, as shown in the drawings, and the gripping-surfaces incline from the side of the jaws of the pliers toward each other.

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

1. In a tool, the combination of two jaws hinged together each provided with a suitable handle, and ribs projecting from one side of the jaws provided with inclined clamping-faces, said ribs extending longitudinally at right angles to the clamping-surfaces of the jaws, as and for the purpose set forth.

2. In a tool, the combination of two jaws hinged together each provided with a suitable handle, and a pair of ribs projecting from each side of said jaws, between their ends and the hinge, said ribs extending longitudinally at right angles to the clamping-surfaces of the jaws, and forming jaws having inclined clamping-surfaces adapted to engage a staple, substantially as described.

3. In a combination-tool, the combination with a pliers, having continuous flat clamping-surfaces of one or more wire-cutters thereon at the hinge, one or more hammer-heads integral with the jaws of the pliers and pro-

jections on the side of the jaws adapted to grip a staple, without cutting it, as set forth.

4. In a tool, the combination of two jaws having continuous flat clamping-surfaces  
5 hinged together each provided with a suitable handle, and ribs projecting from one side of the jaws, at right angles to the clamping-surfaces of the jaws, said ribs having grip-

ping-surfaces inclining from the side of the jaws toward each other, as set forth. 10

In testimony whereof I have hereunto signed my name.

WILLIAM CRONK. [L. S.]

Witnesses:

ELMER L. CRONK,

WILLIAM D. BOWLBY.