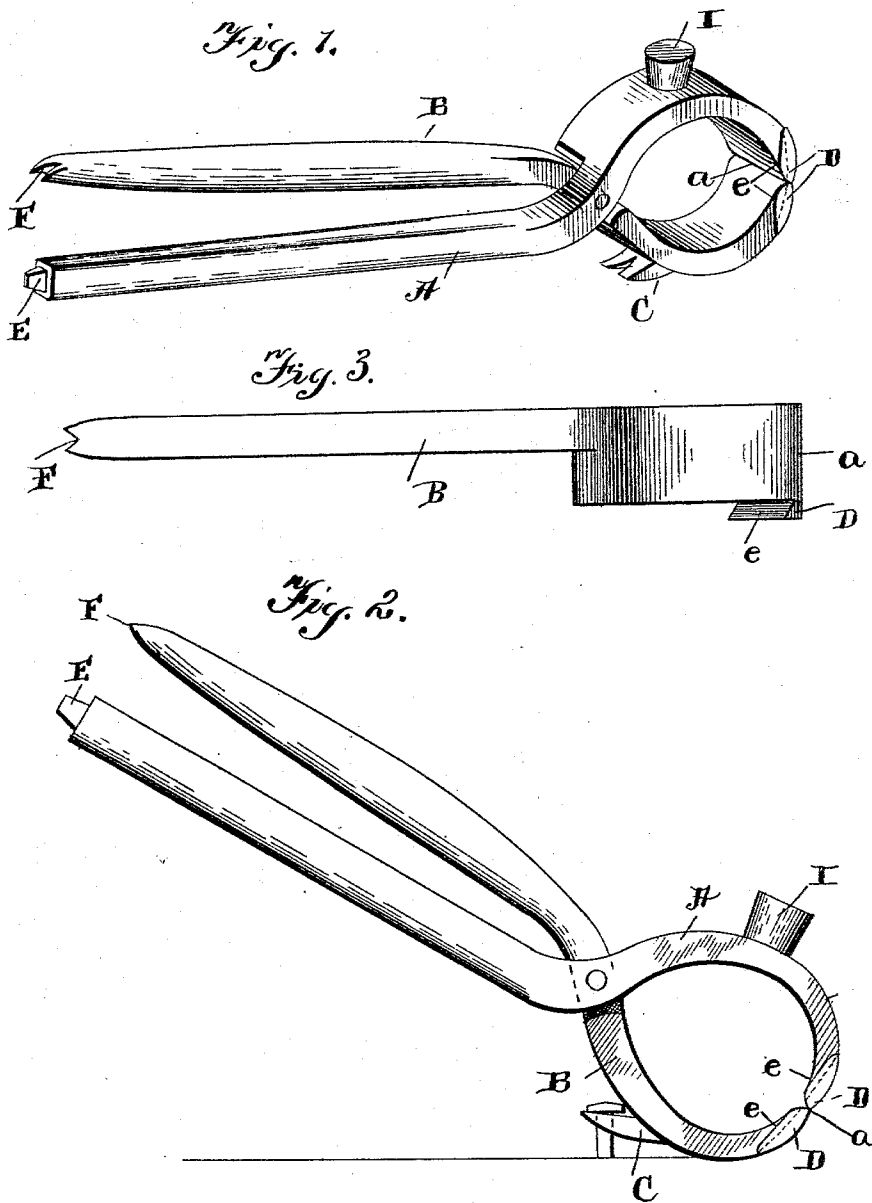


(No Model.)

L. D. SMITH.
COMBINATION TOOL.

No. 562,746.

Patented June 23, 1896.



Witnesses
Geo. C. Fresh?
James W. Berran

Inventor
Lyman D. Smith,
by Pattison & Nesbit,
Attorneys

UNITED STATES PATENT OFFICE.

LYMAN D. SMITH, OF WATERLOO, NEBRASKA.

COMBINATION-TOOL.

SPECIFICATION forming part of Letters Patent No. 562,746, dated June 23, 1896.

Application filed September 10, 1895. Serial No. 562,105. (No model.)

To all whom it may concern:

Be it known that I, LYMAN D. SMITH, of Waterloo, in the county of Douglas and State of Nebraska, have invented certain new and useful Improvements in Combination-Tools; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to improvements in combination-tools intended for use especially in constructing and tearing down wire fences, though it is adapted for other purposes.

The object of my invention is to provide a pair of pincers having rounded jaws, one jaw provided with rearwardly-extended claws for pulling nails or staples, and the two jaws at their adjacent edges provided with projections adapting the device to be used especially for pulling staples which secure wire to the fence-post, &c.

In the accompanying drawings, Figure 1 is a perspective view of a tool which embodies my invention. Fig. 2 is a side elevation of the same, showing it in the act of being used for drawing nails. Fig. 3 is a view of one of the jaws detached, showing the projection thereon provided with a wire-receiving notch.

A and B represent the two jaws, which are curved, as shown and provided at their outer ends with the cutting edges *a*, thus forming a pair of cutting-nippers.

The jaw B is provided with the rearwardly and outwardly extending claws C, which adapts them for use in pulling nails. The claws being substantially intermediate the end of jaw B and extending rearwardly, it will be clearly seen that, as shown in Fig. 2, when the claws are inserted under the heads of the nails to be pulled, the tool rocks or rolls upon the round surface of the jaw and is therefore very effectual in drawing nails and the like. The other jaw A is provided

on its outer side with a hammering portion I, and each of the jaws is provided with a projection D at their outer edges, and immediately at the cutting edge *a*. These projections are slightly inclined on their inner side, so that a slight notch *e* is formed. The use of these projections is that in pulling staples where they secure wire in position the projections are inserted under the wire at a point on either side of the staple where the wire is slack and the wire pried outward until the nippers or cutting edges *a* pass therebeneath and grasp the staple, when it can be readily and quickly withdrawn, the notches *e* confining the wire to prevent its slipping, as will be understood. This makes a very effectual and simple manner of drawing staples. The handle of the jaw A is provided with a screw-driving point E, while the handle of the jaw B is provided with a tack-drawer F.

From the above description it will be seen that I have produced a tool especially adapted for drawing nails, for nailing, for cutting and withdrawing staples and tacks, or for turning screws.

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

In a staple-extractor, the combination with the jaws having cutting edges *a*, of the lateral projections D formed on said jaws and provided with the notches *e*, the said projections adapted to be inserted beneath the wire secured by the staple to pry the same outward, the notches *e* confining the wire to prevent it from slipping, while the cutting edges *a* pass beneath the wire and grip the staple for the purpose of extracting the same.

In testimony whereof I affix my signature in presence of two witnesses.

LYMAN D. SMITH.

Witnesses:

E. L. BREWSTER,
E. M. FLETCHER.