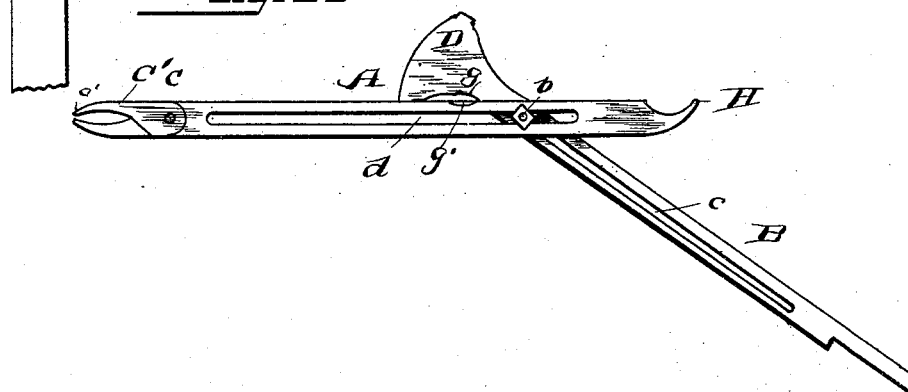
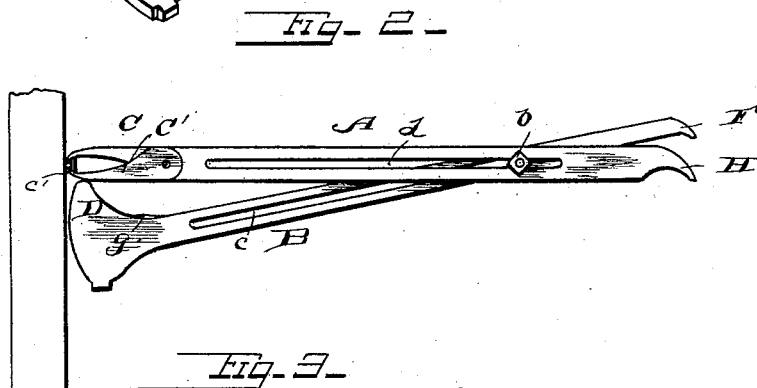
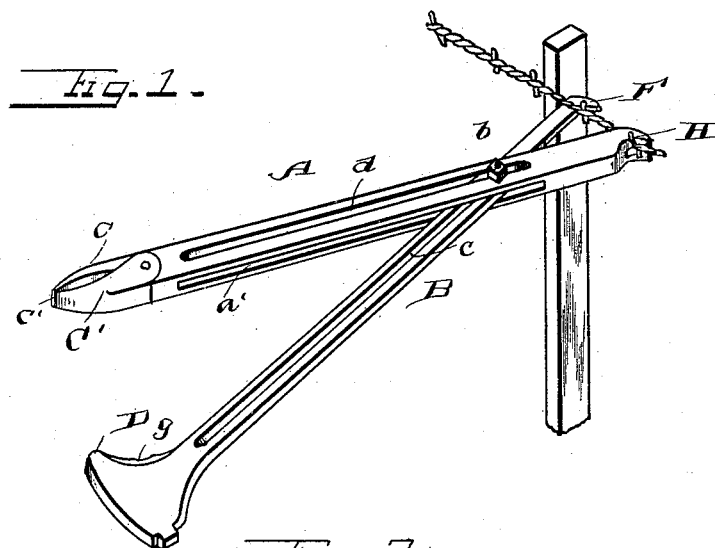


(No Model.)

J. D. PATTERSON.
COMBINATION TOOL.

No. 489,390.

Patented Jan. 3, 1893.



Witnesses
Jesse Heller
Phil. W. M. M.

Inventor
J. D. Patterson,
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UNITED STATES PATENT OFFICE.

JAMES DANIEL PATTERSON, OF LEBANON, MISSOURI.

COMBINATION-TOOL.

SPECIFICATION forming part of Letters Patent No. 489,390, dated January 3, 1893.

Application filed March 10, 1892. Serial No. 424,446. (No model.)

To all whom it may concern:

Be it known that I, JAMES DANIEL PATTERSON, a citizen of the United States, and a resident of Lebanon, in the county of Laclede and State of Missouri, have invented certain new and useful Improvements in Combination-Tools; and I do 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 appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a perspective view. Fig. 2 is a side view. Fig. 3 is a similar view in a different position the end of the bar B being broken off.

This invention has relation to certain new and useful improvements in combination tools, and it consists in the novel construction and combination of parts as hereinafter specified.

The invention more particularly relates to a tool designed to serve the purposes of a wire stretcher, nail puller, staple puller, wire cutter, and hammer, combined in one device, each being so arranged that it will not interfere with the proper operation of the other.

The device consists primarily of two parts, designated in the accompanying drawings by the letters A and B. The part A comprises an elongated bar, having two longitudinal slots a' , d , which intersect each other at right angles. Through the slot a' passes the bar B, which is held therein by a bolt b , working loosely in slot d . In the bar B is a longitudinal slot c , through which the pin b also loosely works. It will therefore be seen that the bar B is capable of a longitudinally sliding movement in the slot a' on its bolt b , and is also capable of a sliding movement in said slot with the bolt b .

On one end of the bar A is formed a stationary jaw C, having knuckled thereto a movable jaw C'. These two jaws are designed to grasp a nail or tack. On one end of the bar B is a head D, the lower surface of which is designed to press on the jaw C', when the parts are in the proper position, and hold the

jaws C and C' in firm engagement with the nail which they have grasped.

The jaw C' has a sharp lip at c' , which serves to engage the wood in which the nail is held, as the device is brought into operation to grasp it. This causes the jaws to open sufficiently to receive the nail head. The bolt b is then brought to the upper end of the slots a and c . By then drawing together the upper ends of the bars A and B, the jaws C, C', will be caused to take hold on the nail, and pull it. In order to hold the parts properly during this operation, the bolt b may be caused to engage or lie in a small depression or recess (not shown) in the edge of the slot d . On the opposite end of the bar B, is a claw F, designed as a staple puller.

The wire cutter is shown at g , g' and consists of a cutting edge on the head D which acts with a similar edge on the bar A at g' , when the bar B is brought to the position shown in Fig. 3. On the opposite end of the bar A is a claw H, which is designed to engage and hold a wire while stretching. The manner in which the tool is used for this purpose is illustrated in Fig. 1. The wire is fastened at one end and laid along the posts. The claw F on the bar B is placed against a post in the manner shown, the claw H of the bar A engaging the wire. By bringing the bars away from each other tension will be given the wire. By adjusting the bar A with relation to the bar B so that the claw H projects a greater or less distance, a greater or less leverage may be obtained.

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

1. The herein described combination tool, comprising the bars A and B, each of which has a sliding connection with the other, the bar A having the clamping jaws C, C' at one end and the claw H at the opposite end, and the bar B having a claw at one extremity and a head at the other adapted to act upon the jaws C, C' of the bar A, substantially as specified.

2. The combination with the bar A having the slots a' and d therein, and being at one extremity provided with a claw and at the

other extremity with a pair of jaws, one stationary and the other movable, of the bar B working loosely in the slot a' , and held therein by a loose bolt capable of a sliding movement
5 in the slot d and in an elongated slot c in the bar B, said bar B having a claw at one end and a head at the other adapted to serve as a hammer and also acting upon the jaws of

the bar A, said bars having also co-acting cutting edges, substantially as specified. 10

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

JAMES DANIEL PATTERSON.

Witnesses:

M. R. PATTERSON,

R. B. V. NIPPER.