

(No Model.)

W. RANKIN.
COMBINATION TOOL.

No. 494,161.

Patented Mar. 28, 1893.

Fig. 5.

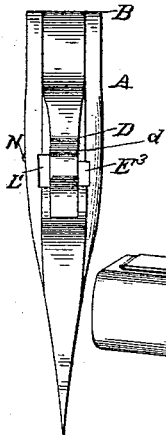


Fig. 1.

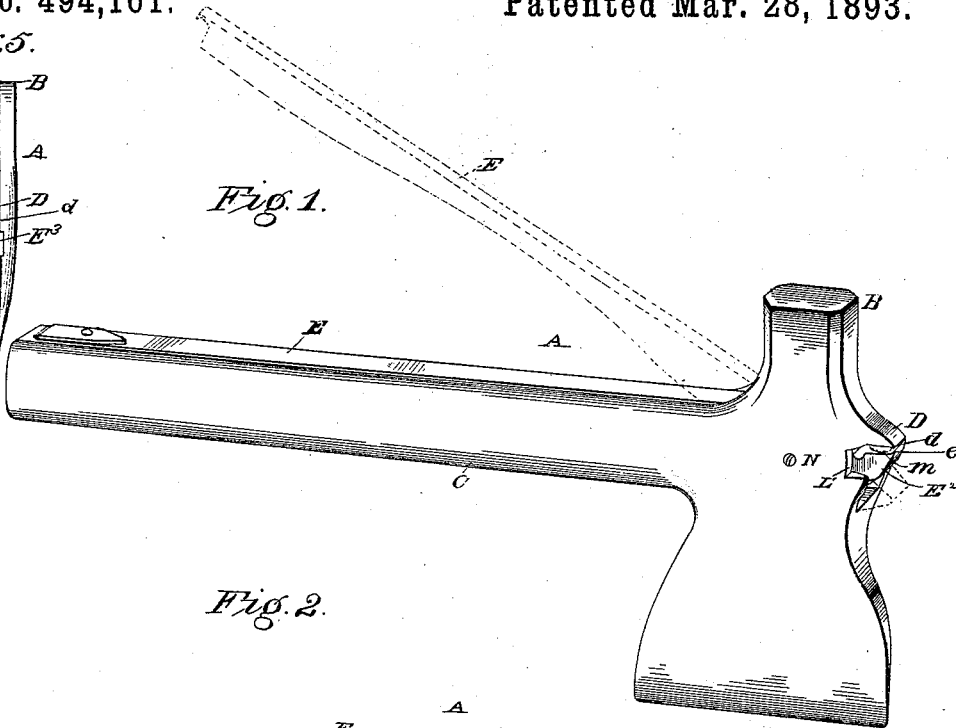


Fig. 2.



Fig. 3.

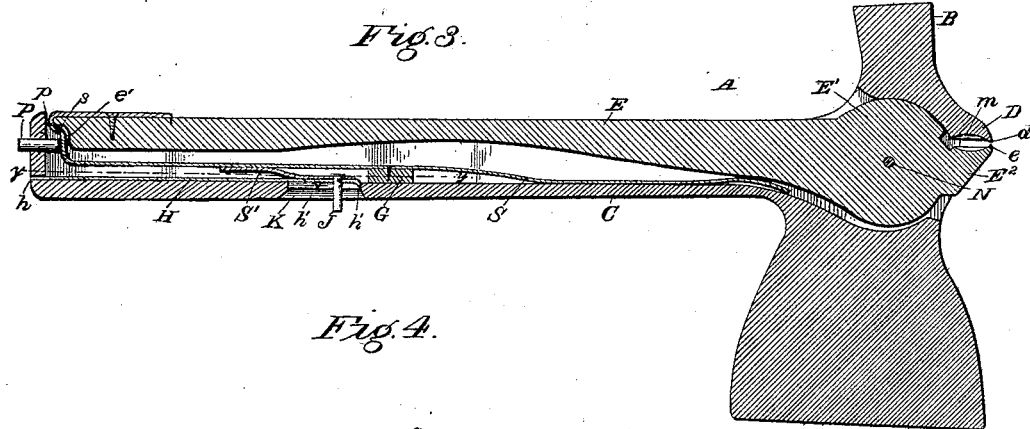


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM RANKIN, OF LINCOLN, ILLINOIS.

COMBINATION-TOOL.

SPECIFICATION forming part of Letters Patent No. 494,161, dated March 28, 1893.

Application filed March 19, 1892. Serial No. 425,617. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM RANKIN, a citizen of the United States, residing at Lincoln, in the county of Logan and State of Illinois, have invented a new and useful Combination-Tool, of which the following is a specification.

This invention relates to a combination tool, and consists in the construction and arrangement of the parts thereof as will be more fully hereinafter described and pointed out in the claim.

The object of this invention is to provide a device of this character having a convenient arrangement of parts, cheaply manufactured and sold.

In the drawings—Figure 1 is a perspective view of a combination tool embodying my invention and showing a portion thereof in dotted lines. Fig. 2 is a top plan view of the same. Fig. 3 is a longitudinal vertical section on the line $x-x$, Fig. 2. Fig. 4 is a horizontal section on the line $y-y$, Fig. 3. Fig. 5 is an end elevation.

Similar letters of reference indicate corresponding parts in the several views.

Referring to the drawings, A designates a hatchet having the usual hammer-head B, and an integral handle C, having a slot extending through the same and through said hatchet-portion, where it is enlarged to provide movement of parts in connection therewith which will be more fully hereinafter set forth. The said hatchet-portion of the tool is also provided with a stationary jaw D, made in the form of pinchers or pliers and provided with a lip d . Within the slot in the handle is normally located a handle or rein E, having a head E' , lying within the enlarged portion of said slot in the hatchet-portion of the device so as to rotate therein, the said head E' being formed with a nose E^2 , forming a pincher or plier jaw and having a lip e , similar in construction to the lip d , hereinbefore referred to, and adapted to engage the same. At the base of the nose E^2 , and extending within the head E' , is a recess E^3 , which forms a mouth with the jaws d and e for the insertion of such devices as are adapted to be held by the same, and also aligns with an opening in the head of the hatchet and forms a cutter, by forming

angular edges that cross each other through the medium of that portion thereof that is formed in the movable jaw e after the manner of a pair of shears or of the well-known form of cutting pliers for the purpose of cutting wire and analogous material. Within the base of the slot in the handle of the tool is secured an elongated spring S, having its forward end bent upward and contacting with the forward portion of the handle or rein E to thereby normally force the same outwardly from the handle C of the tool. The opposite end of said spring S is bent upward at an angle and formed with a top engaging lip s , and adjacent to said lip a push-pin P is secured to said angular portion of the spring and extends through a slot or opening c in the end of the handle C. On the handle or rein E is secured a plate P' , having a lip p , to engage the said lip s , and thereby provide means for temporarily securing the handle or rein E within the handle C of the tool. To provide for this connection, the rear end of the handle or rein E is recessed, as at e' , into which the lip s projects for engagement with the lip p . The spring S is held slightly elevated by a block or strip G, inserted between the under side of the same and the base of the slot in the handle C, to provide a space between the said spring and base of the said slot at the rear of the handle.

A pivot-bolt or screw N is inserted through an opening in one side of the hatchet head and through the head E' and fastened in the opposite part of the hatchet head, to thereby provide an axis of rotation or movement for the said head E' . The side of the hatchet head having the bolt head resting thereon is also provided with a recess L' which aligns with the recess E^3 in the head E' and forms an additional part of the wire-cutting attachment.

When it is desired to use the tool as a hatchet and hammer combined, the rein or handle E is firmly held within the slot of the handle C, as shown in full lines in Fig. 1. When pinchers or pliers are needed, the push-pin P is released or moved inward to release the lip s on the spring S from the lip p on the plate P' , when the said handle or rein E will fly outward from the handle C, as shown

in dotted lines in Fig. 1. In this arrangement also the wire-cutting attachment may be properly arranged for use. Inside of the lips *d* and *e* of the jaws of the pinchers or pliers, cavities *m* are formed, whereby the head of a nail may be embraced by the said jaws and a strong grip secured thereon to remove the same.

This device is especially convenient in putting up wire fences, requiring but one tool to accomplish the work, and thereby avoiding the necessity of conveying a number of tools from place to place.

The gist of the invention resides in a member with a handle having a slot therein opening out at one side only thereof and terminating at its outer end, at one end of the said slot, in a stationary jaw and at the opposite end provided with a push-pin, a movable jaw having a head pivoted in the outer end of said slot, and a handle extending rearward from the said jaw, provided with a shoulder at its rear end and adapted to be received by the said slot; and a spring interposed between the handle of the member and the handle of said movable jaw and located within the slot of the handle of said member, said spring operating to normally throw the handle of the movable jaw outward from the said slot and

having the rear end thereof turned up to form a catch.

Having thus described the invention, what is claimed as new is—

In a tool, a member with a handle having a slot therein opening out at one side only thereof and terminating at its outer end, at one end of the said slot, in a stationary jaw and at the opposite end provided with a push-pin, a movable jaw having a head pivoted in the outer end of said slot, and a handle extending rearward from the said jaw provided with a shoulder at its rear end and adapted to be received by the said slot, and a spring interposed between the handle of the member and the handle of said movable jaw and located within the slot of the handle of said member, said spring operating to normally throw the handle of the movable jaw outward from the said slot and having the rear end thereof turned up to form a catch, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WILLIAM RANKIN.

Witnesses:

H. W. DANA,
JOHN RANKIN,