June 5, 1945. T. S. VOSBIKIAN ET AL 2,377,730

COMBINATION TOOL

Filed March 31, 1943

Fig. 1.

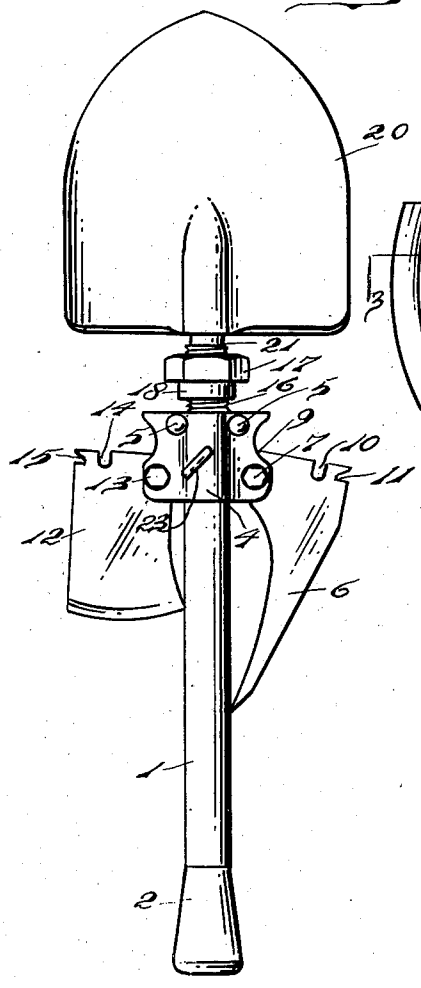

Fig. 2.

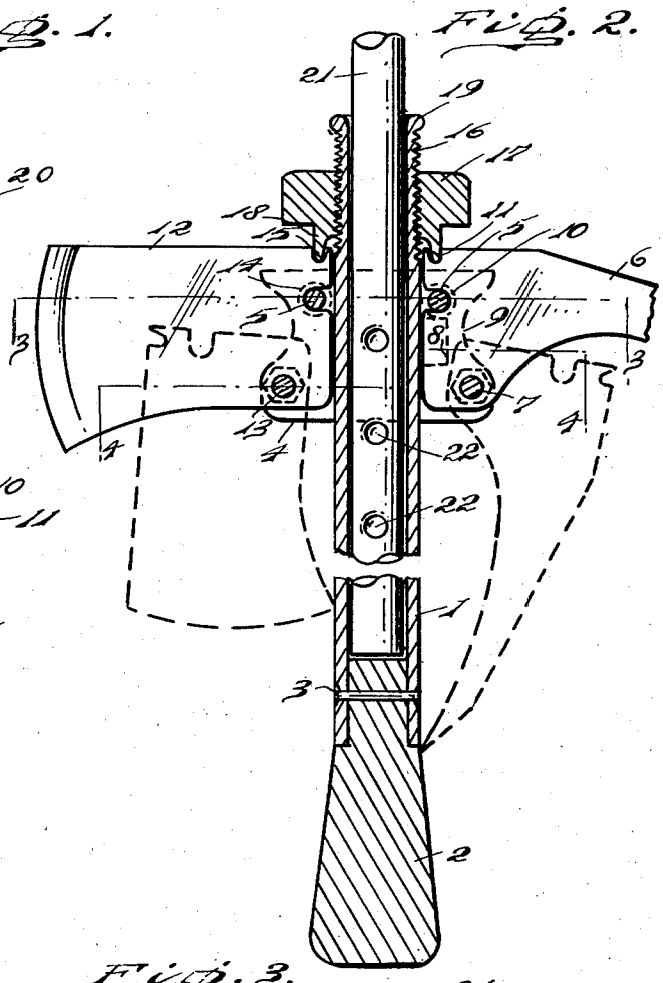

Fig. 3.

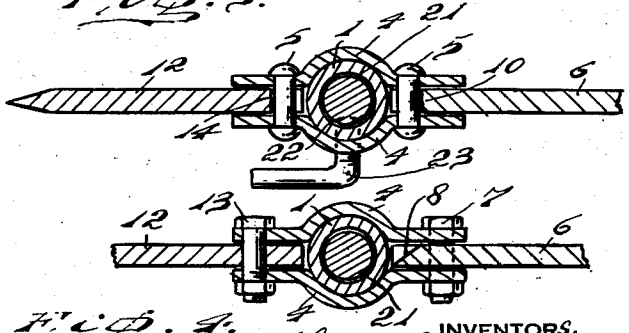

Fig. 4.

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Patented June 5, 1945

2,377,730

UNITED STATES PATENT OFFICE

2,377,730

COMBINATION TOOL

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Application March 31, 1943, Serial No. 481,184

2 Claims. (Cl. 7—16)

The object of this invention is to devise a novel compound tool, which will provide an axe, a pick, a wire cutter and a shovel, the axe and the pick being arranged in a novel manner so that the one which is not to be used can be folded out of the way, if desired, and with the shovel having its handle longitudinally adjustable in the grasping handle of the compound tool.

A further object of the invention is to devise novel locking means for the axe and the pick.

With the above and other objects in view as will hereinafter clearly appear, our invention comprehends a novel construction and arrangement of a compound tool, having a tubular grasping handle to adjustably receive a shovel, having a novel construction and arrangement of brackets fixed to the handle and carrying a novel construction and arrangement of an axe, pick and wire cutter, and having novel means to rigidly lock the axe and pick in operating position with the grasping handle of the compound tool.

Other novel features of construction and advantage will hereinafter appear in the detailed description and the appended claims.

For the purpose of illustrating the invention, we have shown in the accompanying drawing a preferred embodiment which in practice has been found to be satisfactory and reliable. It is however to be understood that the various instrumentalities of which the invention consists can be variously arranged and organized and the invention is not limited to the exact arrangement and organization of these instrumentalities as herein shown.

Figure 1 is a front elevation of a compound tool, embodying our invention.

Figure 2 is a sectional elevation.

Figure 3 is a sectional view, the section being taken on lines 3—3 of Figure 2.

Figure 4 is a sectional view, the section being taken on lines 4—4 of Figure 2.

Similar numerals of reference indicate corresponding parts.

Referring to the drawing:

1 designates the body portion or grasping handle of a compound tool embodying our invention. The handle 1 is tubular, and its outer end is closed by a handle portion 2 secured thereto by a fastening device 3. Brackets 4 are fixed to the handle 1 near its forward end, preferably by spot welding. The brackets are shaped to conform to the contour of the handle and are provided with rivets 5, holding the outer portions of the brackets in spaced relationship. A pick 6 is pivoted between the brackets at one side of the handle by a bolt 7, and is provided with a cutting edge 8 cooperating with a curved edge 9 of one bracket to form means for cutting wire. The pick also has a recess 10 to clear the juxtaposed rivet 5. It also has a notch 11 to receive a locking device which will hereinafter be described.

13 designates an axe, which is pivotally carried by the brackets 4 by means of a bolt 13. The axe has a recess 14 to clear a juxtaposed rivet 5 and is provided with a notch 15 to receive a locking device. The handle 1, outboard of the brackets is threaded as at 16 to receive a nut 17 having a locking ring 18 to enter the notches 11 and 15 when the pick and the axe are in locking position. The outer or forward end of the handle is upset as at 19 to prevent removal of the nut 17. 20 designates a shovel, the handle 21 of which telescopes into the handle 1 and is longitudinally adjustable therein. The handle 21 of the shovel 20 is provided with a desired number of longitudinally spaced depressions to receive the forward end of a locking screw 23. It will be apparent that the shovel may be removed or left in place when the axe or the pick is to be used.

The ends of the axe and pick which are in proximity to the handle 1 when in operating position are substantially straight.

The manner in which the compound tool is used will now be apparent to those skilled in this art and is as follows: If wire is to be cut, the edge 9 of the bracket 4 which carries it is brought against the wire and the pick is moved upwardly. If the pick or axe is to be used, they are moved into operating position and the nut 17 screwed down to cause the locking ring or sleeve 18 to seat in the notches 11 and 15.

If the shovel is to be used, its handle is adjusted to the desired length, and the screw 23 tightened.

Our present invention provides a compound tool which is of light weight, and which in an assembled unit provides a wire cutter, a shovel, an axe and a pick, and manually actuated locking means to selectively lock in operating position, the shovel, axe, or pick.

Having thus described our invention, what we claim as new and desire to secure by Letters Patent is:

1. In a combination tool, a tubular handle, brackets in the form of plates conforming to the contour of the handle at contact portions and

welded to the handle at opposite sides, rivets at the outer portions of said brackets in proximity to opposite sides of the handle, working members having flattened portions pivoted at their inner ends to and between said brackets, and having recesses to clear said rivets and permit the bases of said members to be close to the handle when in operative and locking position, each of said members having a notch with an inclined face near the outer corner of their bases when the members are in operative position, and a locking sleeve adjustable on the outer end of the handle to enter said notches and wedge said members towards said rivets and said handle.

2. In a combination tool, a tubular handle, brackets in the form of plates welded to opposite sides of the handle, rivets through said plates at their outer portion and close to sides of said handle, members pivoted near the inner corners of their bases to the brackets and having recesses to clear the rivets and permit the bases to be close to the handle, each member having a notch with an inclined face, and a nut threaded to the handle and having a locking sleeve to enter said notches and wedge said members towards the handle.

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