

April 21, 1942.

E. D. WILLIAMSON

2,280,463

COMBINATION TOOL

Filed Jan. 15, 1941

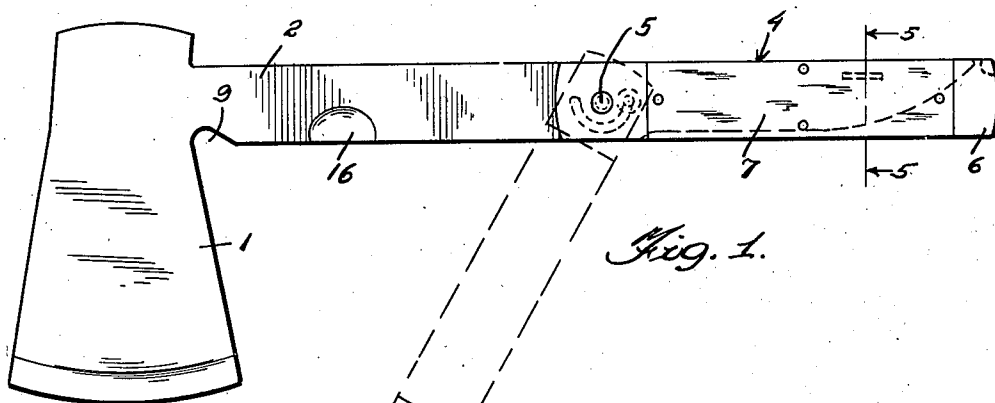


Fig. 1.

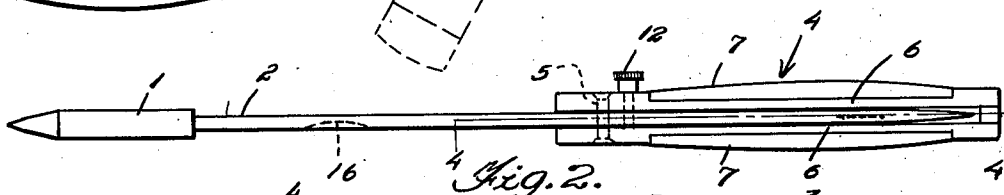


Fig. 2.

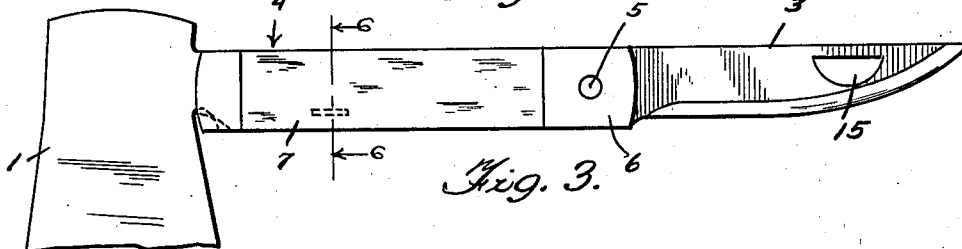


Fig. 3.

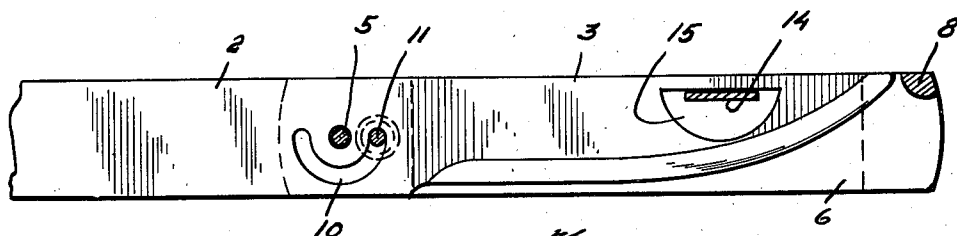


Fig. 4.

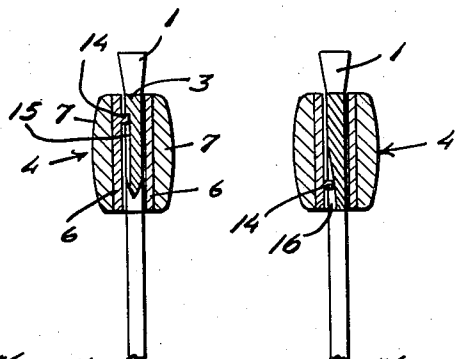


Fig. 5.

Fig. 6.

Inventor

EUGENE D. WILLIAMSON

By

Clarence A. O'Brien

Attorney

UNITED STATES PATENT OFFICE

2,280,463

COMBINATION TOOL

Eugene D. Williamson, Afton, Wyo.

Application January 15, 1941, Serial No. 374,559

2 Claims. (Cl. 30-142)

My invention relates to combination tools and more particularly to improvements in tools combining an axe and a knife for use by scouts, hunters, tourists and the like.

The invention is designed with the particular purpose in view of equipping a tool embodying an axe at one end and a fixed knife at the other with an improved handle whereby the knife, when not in use, may be sheathed, or covered, in a manner such that the knife blade will not interfere with use of the tool as an axe and access to the blade may easily be had and said blade may be conveniently welded, without interference by the axe head.

To the accomplishment of the above, and subordinate objects presently appearing, a preferred embodiment of my invention has been illustrated in the accompanying drawing, set forth in detail in the succeeding description, and defined in the claims appended hereto.

In said drawing:

Figure 1 is a view in side elevation of the preferred embodiment of my invention with the knife blade shown sheathed,

Figure 2 is a view in top plan,

Figure 3 is a view similar to Figure 1 with the knife blade unsheathed,

Figure 4 is a fragmentary view partly in side elevation and partly in section,

Figure 5 is a view in transverse section taken on the line 5-5 of Figure 1, and

Figure 6 is a similar view taken on the line 6-6 of Figure 2.

Referring now to the drawing by numerals, according to my invention, the usual axe head 1 is equipped with a flat, preferably though not necessarily, straight, helve 2 which may be formed integrally with said head and which terminated in an integral knife blade 3 forming a straight extension of said helve 2.

At substantially the juncture of the helve 2 and blade 3, a clasp-type handle member 4 is pivoted at one end thereof as at 5. The handle member 4 comprises a pair of opposed side cheek plates 6, of metal, and is swingable on the pivot 5, in opposite directions, into parallel straddling relation to the blade 3, on the one hand, to sheath the same and provide a hand grip for the helve 2 of the axe head 1, or, swingable into similar relation to the helve 2, on the other hand, to unsheath the blade 3 and provide in conjunction with the helve 2 a hand grip for the blade. Preferably the cheek plates 6 are rabbeted, intermediate the ends thereof, in the usual manner and a pair of horn panels, or side bars, 7

are set into said rabbets and suitably secured to said plates. At the free end of the handle member 4 the cheek plates 6 are connected by a corner bridge piece 8. The helve 2 is provided with an edge notch 9 for receiving said bridge piece 8 when the handle member 4 is swung into sheathing relation to the helve 2 so that said member may be aligned longitudinally with said helve. For establishing the sheathing position of the handle member 4 relative to the blade 3, and helve 2, a substantially semi-circular slot 10 is provided in the helve 2 concentric to the pivot 5. A stud 11 suitably fixed at one end to one cheek plate 6 extends through said slot and the other cheek plate and is provided with a knurled nut 12 threaded thereon for turning against said other plate. The slot 10 is of the proper length for coaction of the opposite ends thereof with the stud 11 to limit swinging of the handle member 4 in opposite directions when it is in parallel sheathing position to the blade 3 and helve 2, respectively.

As will now be apparent, when the handle member 4 is swung into either of its described limits of movement it may be locked in such positions by turning of the nut 12 down on the stud 11 against the handle member into clamping relation thereto.

The handle member 4 is provided with an internal lug 14 adapted to frictionally interlock with a camming countersink 15 on one side of the blade 3 when said member is swung into sheathing relation to said blade, and to similarly interlock with a similar countersink 16 provided in one side of the helve 2 and when said member is swung into sheathing relation to the latter.

As best shown in Figure 2, the handle member 4, helve 2, and blade 3 are relatively proportioned, as regards length, so that said member completely sheaths the helve 2 as well as the blade 3 in the described positions thereof.

The foregoing will, it is believed, suffice to impart a clear understanding of my invention without further explanation.

Manifestly the invention, as described, is susceptible of modification without departing from the inventive concept, and right is herein reserved to such modifications as fall within the scope of the subjoined claims.

What I claim is:

1. In a tool of the class described, a helve, a rigid knife blade at the one end of said helve, a clasp-type handle member pivoted to said helve at the juncture of the helve and knife blade for swinging in opposite directions over the helve and

knife blade, respectively, in straddling relation thereto, said member when swung over said blade forming a sheath enclosing the same and when swung over said helve forming a hand grip thereon facilitating wielding said blade, and means for frictionally locking said member in sheathing position to said blade or helve selectively, said means including a pair of cam forming countersinks in said helve and blade, respectively, and an internal lug in said member coacting with said countersinks under swinging of the member in opposite directions, respectively, to interlock therewith.

2. In a tool of the class described, a helve, a hatchet head at one end of said helve, a rigid knife extending from the other end of said helve,

and a clasp-type hand grip member having outwardly bulged sides and adapted to straddle said helve and knife blade, respectively, said member being pivoted at one end to the helve at the juncture of the helve and knife blade and swingable on said pivot in opposite directions into straddling relation to said helve and blade, respectively, said member when swung into straddling relation to the helve forming a hand grip on said helve close to said head, and said member when swung into straddling relation to said knife blade forming an extension hand grip on said helve remote from said head and sheathing said knife blade.

EUGENE D. WILLIAMSON.