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KNIFE ASSEMBLY

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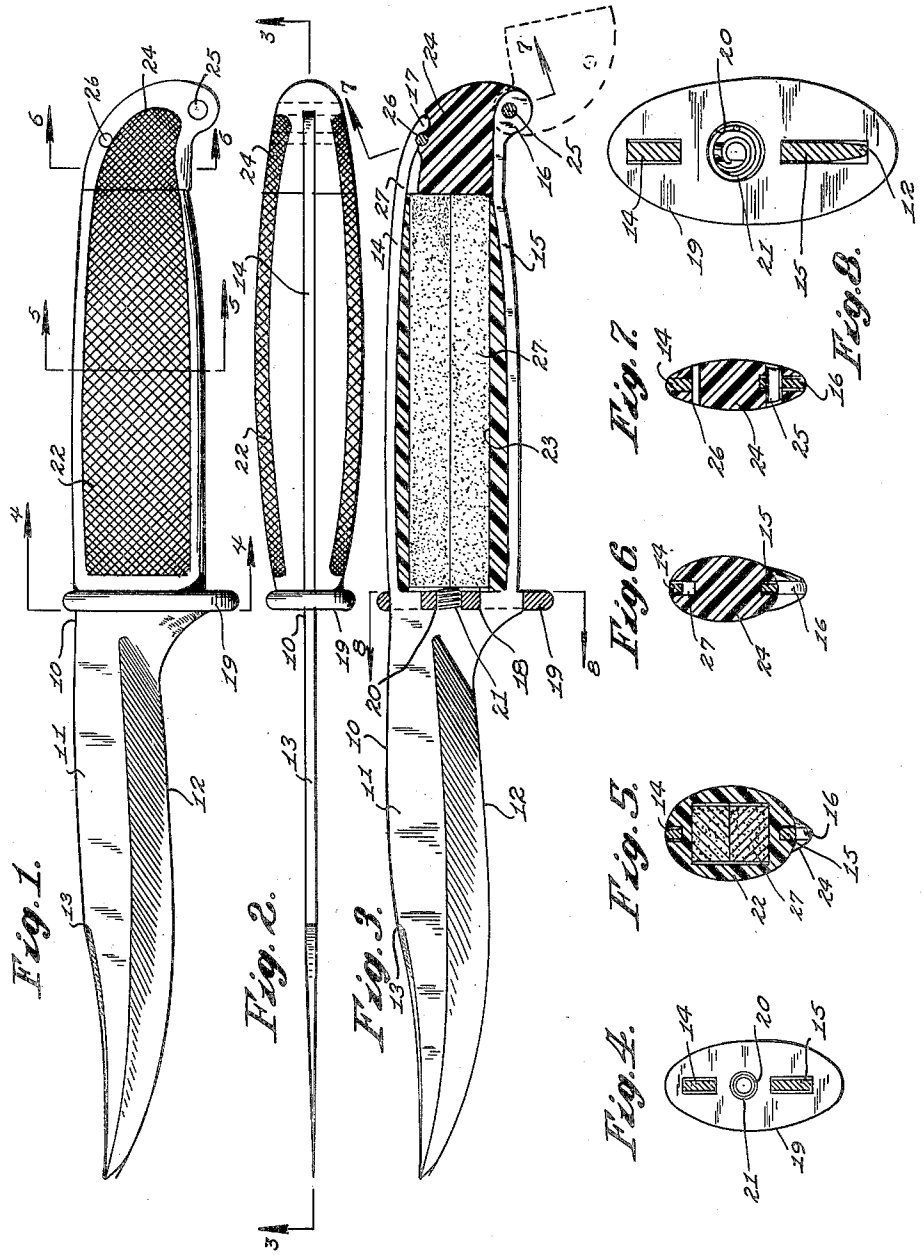

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

Fig. 8.

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KNIFE ASSEMBLY

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3 Claims. (Cl. 30—125)

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This invention relates to knives and more particularly to a knife assembly having a hollow handle providing a receptacle for an object such as a hone.

It is among the objects of the invention to provide an improved knife assembly which includes a hollow handle for carrying a hone or similar object and a movable butt end or pommel for the handle to render the hone readily accessible, which is strong and durable in construction and so economical to manufacture that the cost of the knife and hone assembly need not exceed the cost of a knife of similar size and character, which provides a comfortable hand grip, and which is neat and attractive in appearance and easy to carry in a sheath or other receptacle.

Other objects and advantages will become apparent from a consideration of the following description and the appended claims in conjunction with the accompanying drawing wherein:

Figure 1 is a side elevational view of a knife assembly illustrative of the invention;

Figure 2 is a top plan view of the knife assembly illustrated in Figure 1;

Figure 3 is a longitudinal cross sectional view on the line 3—3 of Figure 2;

Figure 4 is a transverse cross sectional view on the line 4—4 of Figure 1;

Figure 5 is a transverse cross sectional view on the line 5—5 of Figure 1;

Figure 6 is a transverse cross sectional view on the line 6—6 of Figure 1;

Figure 7 is a cross sectional view on the line 7—7 of Figure 3; and

Figure 8 is a transverse cross sectional view on an enlarged scale on the line 8—8 of Figure 3.

With continued reference to the drawing, the knife assembly comprises a flat metal structure 10 formed of suitable material, such as tool or cutlery steel, and including an elongated blade 11 having a cutting edge 12 and a back edge 13 and two tangs 14 and 15 projecting from the butt end of the blade.

The tang 14 extends from the blade at the back edge 13 of the blade and the tang 15 extends from the butt end of the blade at the cutting edge 12, these two tangs being spaced apart and approximately parallel in portions of their lengths, but on the whole converging slightly in a direction away from the butt end of the blade 11.

The tang 15 is provided at its distal end with an apertured eye formation 16 and the tang 14 is somewhat shorter than the tang 15 and has

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near its distal end a notch providing a detent formation 17.

The blade 11 is provided in its butt end with a recess 18 disposed between the tangs 14 and 15 and a flat guard 19 is provided with two spaced apart, rectangular apertures which receive the portions of the blade at the opposite sides of the recess 18 and is secured in position against the butt end of the blade. This guard is preferably elliptical in shape and has in its portion received in the recess 18 an opening 20 and a coiled compression spring 21 is secured at one end in this opening by a close fit in the opening or by a detent projecting into the opening and engaging a coil of the spring.

A handle 22 having a bore 23 extending longitudinally therethrough is disposed between the tangs 14 and 15 and has at its opposite edges longitudinally extending grooves which respectively receive the tangs. The bore 22 constitutes an open ended chamber for receiving and transporting any suitable article. This handle may be made of any suitable materials, such as aluminum, polymerized synthetic resin plastic or hard rubber, and is closed at one end by the guard 19.

The slight convergence of the two tangs toward their distal ends compresses the handle between the tangs and effectively maintains the handle in operative association with the blade without the use of pins or rivets even when force is applied to the handle and pommel to move the pommel relative to the handle.

A pommel 24 is pivotally secured to the eye formation 16 of the tang 15 by a pivot pin or screw 25 and is provided with oppositely disposed grooves which receive the distal end portions of the tangs. A latch pin 26 extends through the pommel at the bottom of the groove receiving the distal end portion of the tang 14 and this latch pin engages with the detent formation 17 at the distal end of this tang to releasably lock the pommel in position in which it covers the outer end of the hollow handle 22. The pommel can be pivoted outwardly around the pivot pin 25 to a position such as that illustrated in broken lines in Figure 3 wherein it uncovers the adjacent end of the handle 22 for the insertion of an article into or the removal of an article from the bore of the handle.

The groove in the pommel receiving the distal end portion of the tang 14 is provided with a recess 27 through which the detent formation 17 may pass when the pommel is swung outwardly and the two tangs are sufficiently resilient to

permit the pommel to be snapped in handle covering position and to permit the manual release of the latch pin 26 from the detent formation 17.

In the illustrated arrangement the bore 23 is rectangular in cross sectional shape and a hone or whetstone 27 in the form of a rectangular prism is carried in the hollow handle.

The hone has a length substantially the same as the length of the handle and when it is placed in the handle and the pommel 24 moved to handle closing position, the spring 21 is compressed. When the pommel is moved away from the adjacent end of the handle the spring 21 expands and partially projects the hone from the handle so that the hone can be readily grasped and removed from the hollow handle for use in sharpening the blade 11.

The invention may be embodied in other specific forms without departing from the spirit or essential characteristics thereof. The present embodiment is, therefore, to be considered in all respects as illustrative and not restrictive, the scope of the invention being indicated by the appended claims rather than by the foregoing description, and all changes which come within the meaning and range of equivalency of the claims are, therefore, intended to be embraced therein.

What is claimed is:

1. A knife assembly comprising a flat structure including a blade and a pair of spaced apart tangs extending from one end of said blade and disposed one at each edge of the blade, a hollow handle disposed between said tangs and having therein longitudinally extending grooves respectively receiving said tangs, one of said tangs having an eye formation at its distal end and the other of said tangs having a detent formation at its distal end, an apertured guard receiving the end of said blade from which said tangs extend

and closing the adjacent end of said hollow handle, a pommel pivotally secured to said eye formation and releasably held by said detent formation in position to close the other end of said hollow handle, said pommel being movable away from the adjacent end of said handle for the insertion of an object into or the removal of an object from said handle, and a compression spring mounted on the end of said blade from which said tangs extend and projecting into the adjacent end of said hollow handle to project an object from said handle when said pommel is moved to uncover the other end of said handle.

2. A knife assembly including a blade having a pair of spaced tangs extending longitudinally from one end thereof, a handle extending between said tangs, means connecting the handle to said tangs, said handle having an open ended chamber for receiving an article, said tangs having the outer ends projecting beyond said handle, a pommel pivotally connected to the outer end of one of said tangs and arranged to close said chamber, the other of said tangs having a yieldable outer end provided with a detent portion, and means on the pommel for releasably engaging the detent portion when the pommel is moved to close the chamber.

3. A knife assembly as called for in claim 2 including a guard connected to the butt end of the blade.

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