June 9, 1942. H. VOSSLER 2,285,635

KNIFE

Filed Jan. 19, 1940

Fig. 1.

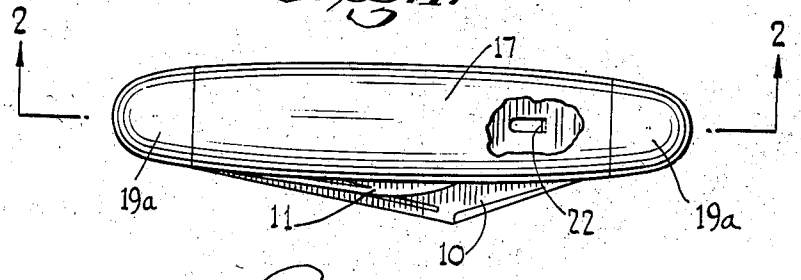


Fig. 2.

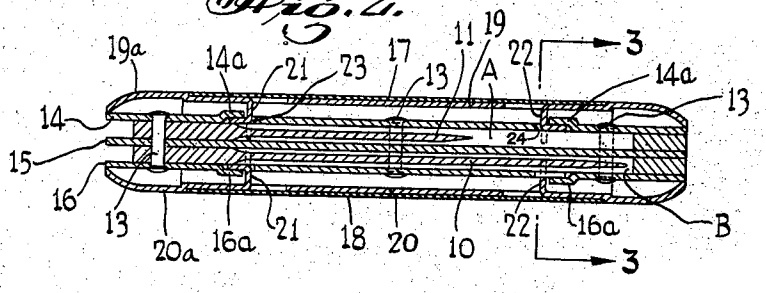


Fig. 4.

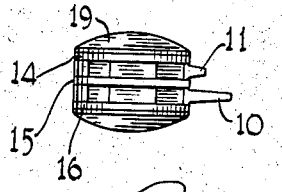


Fig. 3.

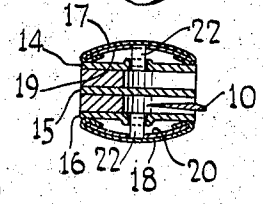


Fig. 5.

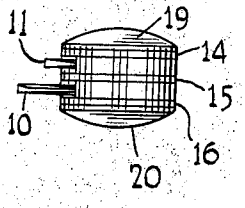


Fig. 6.

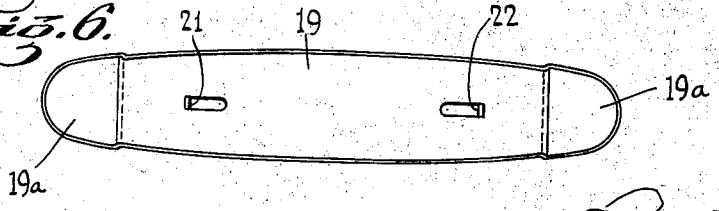
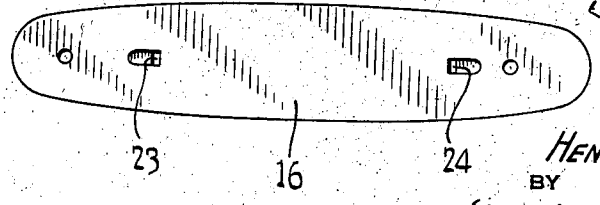


Fig. 7.



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UNITED STATES PATENT OFFICE

2,285,635

KNIFE

Henry Vossler, Providence, R. I., assignor to Imperial Knife Company, Inc., Providence, R. I., a corporation of Rhode Island

Application January 19, 1940, Serial No. 314,649

3 Claims. (Cl. 30—164)

This invention relates generally to knives. More particularly, this invention relates to an improved construction for knife handles.

One of the objects of this invention is to provide an improve knife handle construction of the character described in which an ornamental scale supporting member is attached to the knife in such manner as to present to the finished knife a smooth uninterrupted peripheral edge.

Another object of this invention is to provide an improved knife handle construction of the character described which shall be quickly and easily attachable to a knife frame in such manner that the same will be held in rigid attachment thereto and in which the means for effecting such attachment shall be concealed and protected.

Still another object of this invention is to provide a knife handle construction which shall comprise relatively few and simple parts, which shall be relatively inexpensive to manufacture, simple to assemble and which at the same time shall represent a general improvement in the knife art.

Other objects of this invention will in part be obvious and in part hereinafter pointed out.

The invention accordingly consists in the features of construction, combinations of elements, and arrangement of parts which will be exemplified in the construction hereinafter described, and of which the scope of application will be indicated in the claims.

In the accompanying drawing, in which is shown one of the various possible embodiments of this invention,

Fig. 1 is a top plan view of a knife constructed in accordance with this invention and having a portion of the outer covering thereof broken away to disclose the interior construction;

Fig. 2 is a cross-sectional view taken substantially on the line 2—2 of Fig. 1;

Fig. 3 is a cross-sectional view taken substantially on the line 3—3 of Fig. 2;

Figs. 4 and 5 are end elevational views of the knife illustrated in Fig. 1;

Fig. 6 is an elevational view of the scale supporting member of the knife shown in Fig. 1 but removed therefrom and viewed from the underside thereof; and

Fig. 7 is a top plan view of one of the plates shown in Fig. 2, but disassociated from the knife frame.

Referring now in detail to the drawing, there is disclosed a knife constructed in accordance with my invention, such construction being of the type generally disclosed and described in Patent No. 2,170,537, dated August 22, 1939, for Knife handle and component parts thereof, and comprises a pair of knife blades 10 and 11 pivotally mounted in a frame. The said frame comprises the parallel, spaced plates 14, 15 and 16, held together by suitable rivets 13. The blade 11 in closed position is received in the housing space A formed between the plates 14 and 15 while the blade 10, in closed position, is received in the housing space B formed between the plates 15 and 16. As fully described in the said Patent No. 2,170,537, knives of the character herein described are provided with a pair of ornamental scales 17 and 18 which may be of any suitable material such as a plastic material and which may also be mounted on scale supporting members 19 and 20. The said scale supporting members 19 and 20 may be of the type having pairs of bolsters 19*a* and 20*a* at the ends thereof and in which the ornamental scales 17 and 18 are disposed between the pairs of bolsters.

In knives of this type the method of assembly relating to the attachment of the scale supporting members to the knife frame heretofore consisted of providing the said supporting members with a pair of prongs at the extreme opposite ends thereof, which prongs were received in corresponding notches cut in the extreme ends of the frame plates. By such construction it was found that, when completely assembled, the said prongs and notches were visible at opposite ends of the knife, often resulting in a break in the peripheral contour of the knife when viewed from the top or ends. This detracted materially from the appearance of the knife and was additionally a weak point in the knife assembly.

In accordance with the present invention, therefore, I have provided the following novel means for attaching the scale supporting members 19 and 20 to the frame, whereby the smooth unbroken uniformity of the peripheral contour of the knife is preserved. As clearly shown in Figs. 2, 3 and 6, each of the scale supporting members 19 and 20 is provided with a pair of projections 21 and 22 which may be struck out from the material of the supporting members 19 and 20. It is noted that the pairs of projections 21 and 22 are spaced a predetermined distance inwardly from the ends of the said supporting members 19 and 20 and between the pairs of bolsters 19*a* and 20*a*. The said projections 21 and 22 are designed to be received in corresponding openings 23 and 24 in the frame plates 14 and 16. The portions of the projections 21 and 22

passing through the said openings 23 and 24 and into the spaces A and B are folded over as shown, to thereby retain the supporting members 19 and 20 in fixed attachment to the knife frame.

In view of the above described construction, the uniformity of the peripheral contour of the knife is maintained unbroken throughout, as clearly shown in Figs. 1, 4 and 5 of the drawing. In order not to interfere with the free pivotal movement of the blades 10 and 11 within the spaces A and B, portions 14a of the plate 14 and portions 16a of the plate 16 adjacent the openings 23 and 24 are slightly depressed to permit the inturned portions of the projections 21 and 22 to lie flush with the inner surfaces of the plates 14 and 16.

The knife constructed in accordance with this invention and described above facilitates quick and simple assembly due to the fact that the supporting members 19 and 20 may be stamped with the projections 21 and 22 and the frame plates 14 and 16 may also be stamped with the openings 23 and 24 and the offset portions 14a and 16a. In attaching the scale supporting members 19 and 20 to the frame, it is merely necessary to place the projections 21 and 22 in the corresponding openings, after which, by means of a suitable tool, the ends of the projections 21 and 22 in the spaces A and B are merely bent over.

It will thus be seen that there is provided a device in which the several objects of this invention are achieved, and which is well adapted to meet the conditions of practical use.

As various possible embodiments might be made of the above invention, and as various changes might be made in the embodiments above set forth, it is to be understood that all matter herein set forth or shown in the accompanying drawing is to be interpreted as illustrative and not in a limiting sense.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. In a knife handle construction, a frame comprising a plate having apertures therethrough, a scale supporting member comprising tips or bolsters and a depressed portion interconnecting said bolsters, downwardly projecting tongues in said depressed portion, said tongues being received in said plate apertures and having portions thereof bent over to lie parallel to the plane of said plate, and recessed areas in said plate adjacent said apertures, said bent over tongue portions being received in and completely filling without projecting from said recessed areas.

2. In a knife handle construction, a frame comprising a plate having apertures therethrough, a scale supporting member comprising tips or bolsters and a depressed portion interconnecting said bolsters, downwardly projecting tongues in said depressed portion, said tongues being received in said plate apertures and having portions thereof bent over to lie parallel to the plane of said plate, recessed areas in said plate adjacent said apertures, said bent over tongue portions being received in and completely filling without projecting from said recessed areas, and an ornamental scale member on said supporting member, said scale member being disposed in said depressed portion between said bolsters and concealing the openings therein formed by said struck out projections.

3. In a knife handle construction, a knife receiving compartment, one side of which comprises a plate, a scale supporting member, and means to support said member on said plate, said last named means comprising downwardly projecting tongues on said supporting member and cooperating pockets in said plate, said pockets being struck away from said knife compartment and provided with apertures to receive said tongues, said pockets being of sufficient depth to fully accommodate said tongues without permitting the same to project into said knife compartment, said tongue substantially filling said pockets.

HENRY VOSSLER.