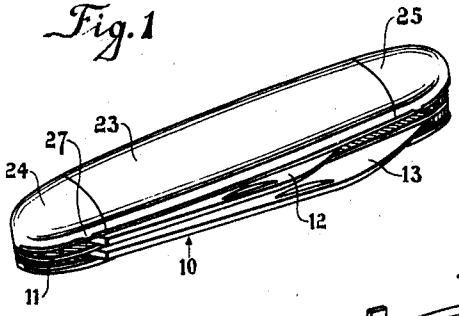
May 5, 1942. F. A. MIRANDO 2,281,783

KNIFE

Filed March 10, 1941

Fig. 1



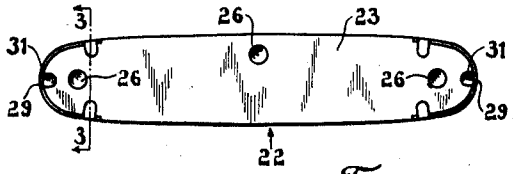


Fig. 2

Fig. 5

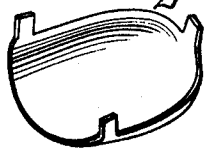


Fig. 3



Fig. 4

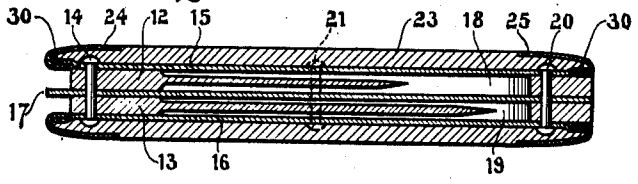


Fig. 6

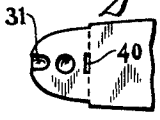


Fig. 7

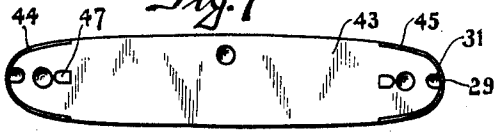
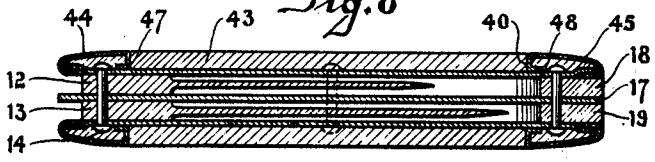


Fig. 8



INVENTOR

Felix A. Mirando

BY

Egon Finkelstein

ATTORNEY

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2,281,783

UNITED STATES PATENT OFFICE

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KNIFE

Felix A. Mirando, Providence, R. I., assignor to Imperial Knife Company, Inc., Providence, R. I., a corporation of Rhode Island

Application March 10, 1941, Serial No. 382,558

16 Claims. (Cl. 30—164)

This invention relates to knives, and more particularly to a pre-assembled ornamental covering unit for the knife frame.

Heretofore in order to make an inexpensive ornamental cover for the scale members of the knife frame it has been the practice to provide a decorative member which was held to each scale by a mounting member comprising a pair of metallic bolsters joined by an intermediate metallic portion.

It is an object of the present invention to provide a construction for ornamental covering units which, by using separate bolsters, does away with the intermediate metallic portion.

Another object of my invention is to provide an improved pre-assembled unit of the character described having bolsters which are positively and firmly self-held to an ornamental cover plate, the bolsters being provided also with means for attachment to the scale member of a knife.

A further object of my invention is to provide an improved pre-assembled unit of the character described which shall comprise but few and simple parts; which shall be inexpensive to manufacture and simple to assemble; which shall be rugged in construction and decorative in appearance; and which will be positively and firmly held to a knife frame.

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.

Certain features of my invention which are shown and described but not claimed herein are shown, described and claimed in my co-pending application Serial No. 382,557, filed March 10, 1941.

In the accompanying drawing, in which are shown several possible embodiments of my invention,

Fig. 1 is a perspective view of a jack-knife having a covering unit embodying my invention;

Fig. 2 is a bottom plan view of the covering unit shown in Fig. 1 prior to being mounted on a knife frame;

Fig. 3 is a sectional view taken along the line 3—3 of Fig. 2;

Fig. 4 is a longitudinal sectional view of the knife shown in Fig. 1;

Fig. 5 is a perspective view of a bolster such as is used in my invention;

Fig. 6 is a fragmentary bottom plan view of an ornamental cover plate used in a modified form of my invention;

Fig. 7 is a bottom plan view of the cover plate shown in Fig. 6 with bolsters attached; and

Fig. 8 is a longitudinal sectional view through a knife employing the cover plate and bolsters shown in Fig. 7.

Referring now in detail to the drawing and more particularly to Figs. 1–5, 10 indicates a pocket knife having any suitable type of frame 11, such for example as that shown and described in Patent No. 2,170,537, dated August 22, 1939, for Knife handle and component parts thereof. Said frame comprises a pair of knife blades 12 and 13 pivotally mounted on a rivet 14 which is supported between parallel upper and lower elongated scales 15 and 16. An intermediate plate 17 separates the knife blades 12 and 13. The usual springs 18 and 19 are provided to hold the blades in either open or closed position. As is customary in the art, an end rivet 20 and central rivet 21 are also employed to maintain the various component parts of the knife frame 11 in assembled position, the heads of these rivets as well as the pivot rivet 14 extending above the surface of the scales 15 and 16.

In accordance with my invention I provide an ornamental covering unit 22 for each scale 15 and 16 of the knife frame 11, said unit comprising an ornamental cover plate 23 and a pair of separate bolsters 24 and 25. The cover plate 23 is made frame any suitable decorative material, such as for example Celluloid, synthetic resin of the phenol or urea formaldehyde condensation or other type, cellulose acetate, rubber, or the like, and is of appreciable thickness so that when not abnormally stressed it will maintain a shape such as shown in Figs. 1–4, its exposed longitudinal edges being of substantially the same contours as the underlying edges of the scales 15 and 16.

The underside of the scale 23 is provided with suitable indentations 26 to enable said plate to clear the heads of the rivets 14 and 20, 21, and with other suitable indentations whose position and function will be hereinafter described.

The bolsters 24 and 25 are disposed one at each end of the ornamental cover plate 23 and are so constructed and arranged with respect thereto that the edges of the bolsters are flush with the adjacent parts of the cover plate and scale. To this end the portions of the cover plate which are superposed by the bolsters are reduced in size by an amount substantially equal to the thickness of the sheet metal comprising the bolsters.

I also provide means integral with the bolsters for positively and firmly attaching the same to the cover plate. Said means preferably comprises an attaching element in the form of a pair of integral projections **27** extending from oppositely disposed portions of the side edges of the bolsters **24** and **25** adjacent the wider end thereof. Said projections are folded over and clinched in underlying recesses **28** provided on the underside of the cover plate **23**. It will be noted from an inspection of Figs. 2 and 3 that when the projections **27** are received in the recesses **28** the bolsters **24** and **25** will be tightly and permanently attached to the decorative cover plate **23** and after the bottom surface of said cover plate is covered said projections will be substantially concealed.

Suitable means is also provided for attaching the assembled unit comprising the cover plate **23** and attached bolsters **24** and **25** to the scales **15** and **16** of the knife frame. To this end I employ another integral projection **29** on each bolster which projects from the narrow end thereof. Said projection **29**, after the bolsters and scale have been assembled into the unit shown in Figs. 2 and 3, extends away from the bottom surface of said unit.

The knife frame upon which this type of unit is mounted is provided with a pair of pockets **30** at each end of the scales, which are adapted to receive therein the projections **29**, same being folded thereinto after the preassembled unit **22** has been properly positioned upon the knife frame **11**. As will be seen in Fig. 1, the projections **29**, after being folded over, lie wholly within the periphery of the bolsters **24** and **25** and will be only barely noticeable upon the exterior of the knife, their presence having been exaggerated in Fig. 1 for the purpose of showing their position and structure.

It will be noted that the attaching means employed to hold the unit **22** to the frame **11**, as well as the means employed to hold the bolsters to the cover plate, form an unobtrusive mechanical joint between the unit **22** and the knife frame, in contrast with such attaching means as exteriorly disposed rivets or cement.

By reason of the elevation of the pockets **30** above the scales **15** and **16**, I also provide a pair of mating indentations **31** on the under surface of the cover plate **23**.

In Figs. 6–8 I have shown a modified form of my invention wherein in lieu of providing projections **27** on the side edges of the bolsters **24** and **25** I have employed a central projection **47** extending from a transverse edge of the bolsters **44** and **45** through the cover plate **43**. Said projections **47** are bent over to pass freely through an aperture **40** in cover plate **43** and are then further bent around into a recess **48** on the under surface of said plate where said projections are firmly clinched.

It will be seen that both of the pre-assembled ornamental covering units for knife frames above described lend themselves to simple and rapid mass production since the cover plates and bolsters may be made in separate molding and stamping machines, well known to the art, and then assembled in suitable metal-bending devices. These assembled units may then be stored or transferred in bulk to apparatus where they are mounted on completed knife frames.

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. An ornamental covering unit for a knife frame comprising a separate bolster, and a preformed elongated ornamental cover plate, the longitudinal edges of said cover plate being of the same general configuration as the edges of the knife frame, said bolster having integral attaching means for clinching said bolster to said cover plate.

2. An ornamental covering unit for a knife frame comprising a separate bolster, and a preformed thick ornamental elongated cover plate, the under surface of said cover plate being of the same general configuration as the upper surface of said frame, the upper surface of said cover plate being convex and the longitudinal edges of said cover plate being of substantially the same outline as the longitudinal edges of the knife frame, said bolster having integral means for clinching said bolster to said cover plate.

3. An ornamental covering unit for a knife frame comprising a pair of separate bolsters, and a preformed elongated ornamental cover plate, the longitudinal edges of said cover plate being of the same general configuration as the edges of the knife frame, said bolsters having integral attaching means for clinching said bolsters to said cover plate.

4. An ornamental covering unit for a knife frame comprising a separate sheet metal bolster, and a preformed elongated ornamental cover plate, the longitudinal edges of said cover plate being of the same general configuration as the edges of the knife frame, said bolster having integral attaching means for clinching said bolster to said cover plate.

5. An ornamental covering unit for a knife frame comprising a separate bolster, a preformed elongated ornamental cover plate, the longitudinal edges of said cover plate being of the same general configuration as the edges of the knife frame, said bolster having integral attaching means which positively and firmly holds said bolster to said cover plate, and separate attaching means for positively and firmly holding said unit to said frame.

6. An ornamental covering unit for a knife frame comprising a pair of separate bolsters, a preformed elongated ornamental cover plate, the longitudinal edges of said cover plate being of the same general configuration as the edges of the knife frame, said bolsters having integral attaching means which positively and firmly holds said bolsters to said cover plate, and separate attaching means for positively and firmly holding said unit to said frame.

7. An ornamental covering unit for a knife frame comprising a separate bolster, and a preformed elongated ornamental cover plate, the longitudinal edges of said cover plate being of the same general configuration as the edges of the knife frame, said bolster having integral attaching means which positively and firmly holds

said bolster to said cover plate, said means extending from a side edge of said bolster.

8. An ornamental covering unit for a knife frame comprising a separate sheet metal bolster, and a preformed elongated ornamental cover plate, the longitudinal edges of said cover plate being of the same general configuration as the edges of the knife frame, said bolster having integral attaching means which positively and firmly holds said bolster to said cover plate, said means comprising a projection extending from an edge of said bolster and clinched against the under surface of said cover plate.

9. An ornamental covering unit for a knife frame comprising a separate sheet metal bolster, and a preformed elongated ornamental cover plate, the longitudinal edges of said cover plate being of the same general configuration as the edges of the knife frame, said bolster having integral attaching means which positively and firmly holds said bolster to said cover plate, said means comprising a projection extending from an edge of said bolster and received in a recess in the under side of said cover plate.

10. An ornamental covering unit for a knife frame comprising a separate bolster, and a preformed elongated ornamental cover plate, the longitudinal edges of said cover plate being of the same general configuration as the edges of the knife frame, said bolster having integral attaching means which positively and firmly holds said bolster to said cover plate, said means comprising a projection extending from a side edge of said bolster and having a fold to direct a portion thereof beneath the under surface of said cover plate, said fold being substantially coincident with the underlying edge of said knife frame.

11. An ornamental covering unit for a knife frame comprising a separate bolster, and a preformed elongated ornamental cover plate, the longitudinal edges of said cover plate being of the same general configuration as the edges of the knife frame, said bolster having integral attaching means which positively and firmly holds said bolster to said cover plate, said means comprising a pair of projections extending from oppositely disposed edges of said bolster, said projections being clinched against the under surface of said cover plate.

12. An ornamental covering unit for a knife frame comprising a separate bolster, and a preformed elongated ornamental cover plate, the longitudinal edges of said cover plate being of the same general configuration as the edges of the knife frame, said bolster having integral attaching means which positively and firmly holds said bolster to said cover plate, said means extending from a transverse edge of said bolster.

13. An ornamental covering unit for a knife frame comprising a separate bolster, and a preformed elongated ornamental cover plate, the longitudinal edges of said cover plate being of the same general configuration as the edges of the knife frame, said bolster having integral attaching means which positively and firmly holds said bolster to said cover plate, said means comprising a projection extending from said bolster, said projection being disposed in an aperture through said cover plate and clinched against the under surface of said plate.

14. For use with a decorative cover plate a separate bolster, said bolster having integral attaching means for clinching said bolster to said cover plate.

15. For use with a decorative cover plate a pair of separate bolsters, each of said bolsters having integral attaching means for clinching said bolsters to said cover plate.

16. For use with a decorative cover plate a separate bolster, said bolster having integral attaching means for positively and firmly holding said bolster to said cover plate, and independent integral attaching means for positively and firmly holding said bolster to a knife frame.

FELIX A. MIRANDO.