

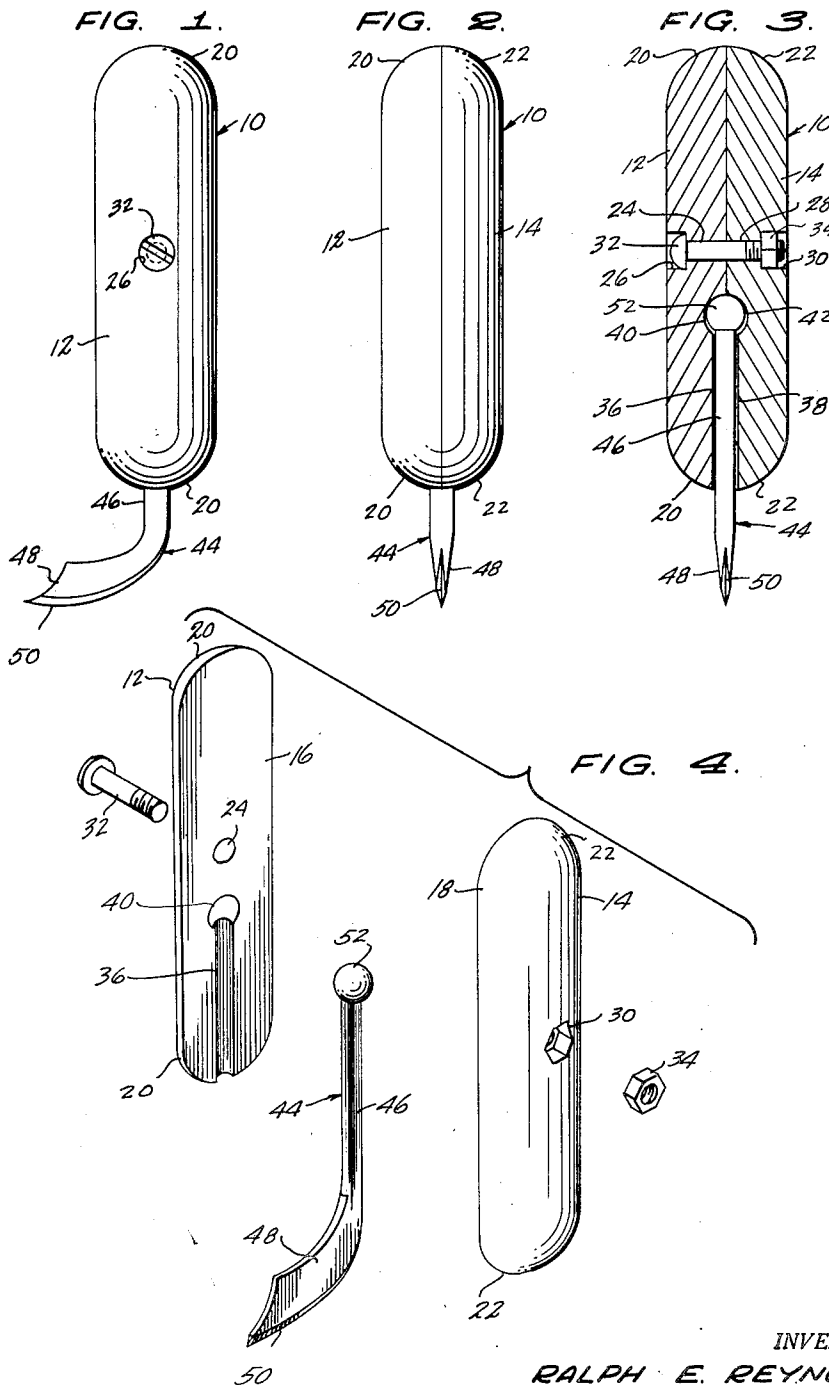
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KNIFE FOR CARVING LEATHER AND THE LIKE

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KNIFE FOR CARVING LEATHER
AND THE LIKE

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This invention relates to cutting devices, and more particularly, has reference to a knife having a swiveled blade and adapted particularly for carving leather and similar materials.

In cutting a material such as leather, the worker is often required to cut ornamental patterns and the like in the material, and heretofore, difficulty has been experienced in cutting the material with a desired amount of facility. This is due to the fact that generally, the blade of the knife is fixedly associated with the handle, and accordingly it is necessary that the worker manipulate the handle almost continuously, for the purpose of disposing the cutting edge of the knife along the line where the material is being cut.

In view of the above, it is one important object of the present invention to provide a knife of the swiveled blade type, that is adapted particularly for cutting leather, the blade being swiveled or casted upon the handle associated therewith, in such a manner as to follow faithfully the line along which the handle is being moved during the cutting of a piece of material.

Another important object is to provide, in a blade as stated, a simple arrangement whereby the blade may be swively mounted, the mounting of the blade being such as to cause the shank of said blade to hold the component sections of the handle against relative movement.

Yet another important object is to provide, in a swiveled blade construction for a knife, complementary means on the shank of the blade and the handle sections that will prevent accidental withdrawal of the blade from the sections with which it is assembled.

A still further important object is to provide, in a knife for carving leather and like materials, a casted blade the cutting edge of which is so curved and inclined as to cause said edge to enter the material with a minimum amount of difficulty, thereby to facilitate movement of the knife over the material during the cutting operation.

Other objects will appear from the following description, the claims appended thereto, and from the annexed drawing, in which like reference characters designate like parts throughout the several views, and wherein:

Figure 1 is a side elevational view of a knife formed in accordance with the present invention;

Figure 2 is an elevational view of the knife as it appears when viewed from the left of Figure 1;

Figure 3 is a longitudinal sectional view; and

Figure 4 is an exploded perspective view.

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Referring in detail to the drawings, the reference numeral 10 has been applied generally to a knife handle, said handle including complementary handle sections 12, 14 respectively.

The handle sections are relatively elongated, and are formed with flat, contacting, inner surfaces 16, 18, and transversely curved outer surfaces which, when the handle sections are connected, impart to the handle a circular cross-sectional shape. At their opposite ends, the handle sections are rounded off as at 20, 22, in the preferred embodiment of the invention.

Formed in the handle section 12 is a transverse opening 24, said opening being disposed medially between the opposite ends of said section. At one end, the opening 24 opens upon the flat inner surface 16 of the handle section, said opening communicating at its other end with a counterbore 26 formed in the rounded outer surface of the handle section.

The other handle section 14 is formed with a transverse opening 28, said opening communicating at its inner end with the flat inner surface 18 and at its outer end with a nut-receiving recess 30 polygonally shaped for the purpose of holding against rotation a nut seated therein.

When the handle sections are engaged against one another, the openings 24, 28 are brought into registration, for extension therethrough of a connecting bolt 32. The connecting bolt 32 has a threaded shank adapted for engagement with a nut 34, that is seated in the recess 30 of the handle section 14.

At one end of the handle section 12, I form in the flat inner surface 16 thereof a longitudinal groove 36, said groove being extended longitudinally and centrally of the inner surface 16 and opening at one end upon the lower end of the handle section in which it is formed. The section 14 is provided with a longitudinal groove 38, said groove facing the groove 36 when the handle sections are connected. Since the grooves 36, 38 are respectively formed to a semicircular cross-sectional shape, they cooperate to form a longitudinal bore in one end of the handle, that extends longitudinally and centrally of the handle, and is formed to a circular cross-section.

In the handle section 12, at the inner end of the groove 36, I provide hemispherical recess 40, said recess communicating with the groove 36 (Figure 4) and being adapted to face a hemispherical recess 42 formed in the section 14 and communicating with the groove 38 of said section 14. The recesses 40, 42 coact to provide a spheri-

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cal cavity within the handle, at the inner end of the longitudinal bore thereof.

A knife blade has been designated generally by the reference numeral 44, and is of integral construction. Said blade includes an elongated shank 46, that extends through the longitudinal bore of the handle, said shank having one end projecting beyond the lower end of the handle. The projecting end of the shank is integrally formed with a lateral extension 48, said extension being of flat, curved formation and having a sharpened cutting edge 50. As may be particularly noted from Figure 1, the cutting edge 50 is curved throughout its length, and is arranged obliquely to the axis of the swiveled shank 46. As a result, when the handle is drawn over a piece of material to be cut, not shown, the cutting edge 50 will penetrate the material in a shearing action that will facilitate the cutting operation. Additionally, the lateral extension 48 on which the cutting edge is formed will trail the handle 10, and will follow along the line along which the material is being cut.

On the inner end of the shank 46, I form a spherical enlargement or ball 52, said ball being proportioned to fit within the cavity 40, thus to prevent withdrawal of the shank from the handle when said handle has its component sections joined by the connecting bolt 32.

It is also believed of importance to note that the blade 44, while being held by the handle sections against withdrawal, will at the same time hold the handle sections against relative pivotal movement about the axis of the single connecting bolt 32. In this way, I am able to provide a handle having a single connecting means 32, a blade being rotatably mounted in the handle and being adapted at the same time to hold the handle sections against relative movement.

It is believed apparent that the invention is not necessarily confined to the specific use or uses thereof described above, since it may be utilized for any purpose to which it may be suited. Nor is the invention to be necessarily limited to the specific construction illustrated and described, since such construction is only intended to be illustrative of the principles of operation and the means presently devised to carry out said principles, it being considered that the invention comprehends any minor changes in construction that may be permitted within the scope of the appended claims.

What is claimed is:

1. A knife of the swivel blade type for carving leather and like materials comprising a handle including a pair of complementary handle sec-

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tions having flat contacting inner surfaces formed with grooves extending longitudinally of the sections and facing one another to form a longitudinal bore in the handle, removable securing means extending through said handle sections intermediate the ends thereof and connecting the handle sections together, said inner faces having recesses communicating with the respective grooves and facing one another to form a cavity in the handle, and a blade swivelly mounted on the handle, said blade including a shank extending through and rotatable in said bore and having one end projecting beyond one end of the handle sections, a lateral extension formed upon said projecting end of the shank and provided with a cutting edge, and means on the shank conformably fitting and rotatable in said cavity to provide means effective to hold the shank against withdrawal from the bore.

2. A knife of the swiveled blade type for carving leather and like materials, comprising: a handle including a pair of complementary handle sections each of which is formed with a single opening intermediate its ends; a bolt extending through said openings and connecting the handle sections together, said sections having flat, contacting, inner surfaces formed with grooves extending longitudinally of the sections and facing one another to provide a longitudinal bore in the handle, said inner surfaces having hemispherical recesses communicating with the grooves and facing one another to form a spherical cavity in the handle; and a blade swivelly mounted on the handle, said blade including a shank extending through and rotatable in said bore, one end of the shank projecting beyond one end of the sections, a lateral extension formed upon said projecting end of the shank and provided with a cutting edge, and a ball formed on the shank and rotatable in said cavity to provide means effective to hold the shank against withdrawal from the bore, said shank holding the sections against relative pivotal movement about the axis of said bolt.

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