

PATENT SPECIFICATION

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(54) SHEATH FOR KNIFE

(71) I, RUDOLF KOPPE, a Canadian citizen, of 7, Alpha Mills Road, Streetsville, Ontario, Canada, do hereby declare the invention, for which I pray that a

5 patent may be granted to me, and the method by which it is to be performed, to be particularly described in and by the following statement:—

10 This invention relates to a sheath for a knife.

Knives, such as hunting knives having a blade fixed to a handle are often provided with a tight fitting sheath, usually of leather. Sometimes the sheath is provided

15 with a tight fitting removable attachment to the upper part of the handle of the knife. Through constant use the sheath may stretch, the attachment may become damaged, the knife may accidentally slip

20 out of the sheath causing accidental injury and the edge of the blade may be damaged through constant contact with the wall of the sheath.

According to one aspect of the present

25 invention, there is provided, in a sheath for a knife, two opposed elongate side walls joined along their side edges and one end to define a pocket open at the other end for the registration therewithin of a knife

30 blade, one said side wall having an aperture therethrough in a region intermediate the ends of the sheath and having a configuration so as to receive in snug registration therewithin an intermediate

35 portion of a spring metal band and so arranged as to support said spring metal band, said spring metal band including a resiliently displaceable arched portion located inside said pocket and so arranged

40 at an angle to said intermediate portion as to extend towards said one end and present a convex side towards the other said side wall and frictionally resiliently to bear, in use, against one flat surface of a knife

45 blade, said metal band including an anchor

portion located outside the pocket, and having a part extending from said intermediate portion and at an angle to and towards the exterior wall of said sheath, so as substantially to secure said intermediate

50 portion of said metal band within said aperture against dislodgement, said anchor portion being in the form of a loop extending towards said other end and forming a clip for releasably clipping said

55 sheath to a support.

According to a second aspect of the present invention, there is provided a combination of a knife having a handle and a fixed blade and a sheath therefor in which

60 said sheath comprises two opposed elongate side walls of substantially opposite symmetry joined along their side edges and one end to define a pocket open at the other end for the snug registration of said

65 knife blade therewithin, said side walls each having an inherent stiffness and resiliency, one said side wall having an aperture therethrough in a region intermediate the ends of the sheath and having

70 a configuration so as to receive in snug registration therewithin an intermediate portion of a spring metal band and so arranged to support said spring metal band, said spring metal band including a

75 resiliently displaceable arched portion located inside said pocket and so arranged at an angle to said intermediate portion as to extend towards said one end and present a convex side towards the other said

80 side wall and to frictionally and resiliently bear against one flat surface of said knife blade, said metal band including an anchor portion located outside said pocket and having a part extending from said intermediate

85 portion and at an angle to and towards the exterior wall of said sheath, so as substantially to secure said intermediate portion of said metal band within said aperture against dislodgement, said knife

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handle having a generally symmetrical configuration about the plane of said knife blade and presenting to the edges of said sheath walls defining the open end of said pocket a shoulder located between the ends of said knife handle, said shoulder and the lastmentioned edges of said walls having corresponding and complementary shaping whereby said shoulder is received in snug seated registration with said last mentioned edges whereby said knife and sheath are releasably interlocked together.

For a better understanding of the invention and to show how the same may be carried into effect, reference will now be made, by way of example, to the accompanying drawing, in which:—

Figure 1 is a broken view of the exterior of a sheath with a knife blade fully inserted therein.

Figure 2 is a broken sectional side view of the sheath of Figure 1 taken through a section A in Figure 1, and

Figure 3 is a broken view of the sheath in Figures 1 and 2 with the knife fully inserted and an elongate loop of a clip secured to the top calf portion of a high boot.

Referring to the drawing, a sheath 3 includes two opposed elongate side walls of substantially opposite symmetry joined along their side edges and one end to define a pocket open at the other end for registration therewithin of a knife blade 2 affixed to a handle 1 having a shoulder 12 between the ends of the handle. Each side wall has an inherent stiffness and resiliency. A metal spring band 5 has a resiliently displaceable arched portion which is located inside the sheath 3, so that a convex side of the metal spring band 5 faces the opposite wall of the sheath 3. With the knife inserted in the sheath, the spring band 5 is under tension due to the pressure of the blade 2 on the spring band 5.

As shown in Figure 2, the tip of the arched portion of the metal spring band 5 assumes a configuration adapted to slidably engage against the inner surface of the wall of the sheath 3 in order to facilitate the longitudinal movement of the pocket under the force imparted by the insertion and withdrawal of the blade, the spring band 5 also being able resiliently to bear against one flat surface of the blade. The saddle shaping shown of edges 11 of the open end of the sheath corresponds and complements the shoulder 12 of the knife handle so as to achieve a snug seated registration when the knife blade is fully inserted into the sheath. The knife handle 1 has a generally symmetrical configuration about the plane of its blade. The sheath 3 has an aperture 7 on the broad

side of the sheath wall just below the open end and the spring band 5, in the present case, is integral with an elongate loop 9, constituting an anchor portion, through an intermediate portion 6 of the band, the elongate loop 9 being outside of the sheath 3.

The aperture 7 allows the portion 6 of the spring band to pass through the sheath wall. The metal band 5 has a part 8 which extends from the portion 6 and at an angle to and towards the exterior wall of the sheath 3 so that spring band 5 and loop 9 are maintained under tension securing them to the sheath. The remaining portion of the elongate loop 9 is bent backwards or downwardly to present a convex curve of which part can resiliently bear against the adjacent outside wall of the sheath, thereby forming a spring clip for attaching the sheath to a support 10 shown in Figure 3, which can be, as shown, the top calf portion of a high boot.

It will be appreciated that the present sheath serves to preserve the cutting edge of the blade and hold the knife securely within the sheath against accidental dislodgement. Also, the sheath may be readily securely supported from wearing apparel, such as from a belt or on the waist of a bathing suit or trousers or from the top of a boot and in a manner presenting the knife handle in ready position for grasping by hand.

WHAT I CLAIM IS:—

1. In a sheath for a knife, two opposed elongate side walls joined along their side edges and one end to define a pocket open at the other end for the registration therewithin of a knife blade, one said side wall having an aperture therethrough in a region intermediate the ends of the sheath and having a configuration so as to receive in snug registration therewithin an intermediate portion of a spring metal band and so arranged as to support said spring metal band, said spring metal band including a resiliently displaceable arched portion located inside said pocket and so arranged at an angle to said intermediate portion as to extend towards said one end and present a convex side towards the other said side wall and frictionally resiliently to bear, in use, against one flat surface of a knife blade, said metal band including an anchor portion located outside said pocket, and having a part extending from said intermediate portion and at an angle to and towards the exterior wall of said sheath, so as substantially to secure said intermediate portion of said metal band within said aperture against dislodgement, said anchor portion being in the form of a loop extending towards said other end and forming a clip for releasably

handle having a generally symmetrical configuration about the plane of said knife blade and presenting to the edges of said sheath walls defining the open end of said pocket a shoulder located between the ends of said knife handle, said shoulder and the lastmentioned edges of said walls having corresponding and complementary shaping whereby said shoulder is received in snug seated registration with said last mentioned edges whereby said knife and sheath are releasably interlocked together.

For a better understanding of the invention and to show how the same may be carried into effect, reference will now be made, by way of example, to the accompanying drawing, in which:—

Figure 1 is a broken view of the exterior of a sheath with a knife blade fully inserted therein,

Figure 2 is a broken sectional side view of the sheath of Figure 1 taken through a section A in Figure 1, and

Figure 3 is a broken view of the sheath in Figures 1 and 2 with the knife fully inserted and an elongate loop of a clip secured to the top calf portion of a high boot.

Referring to the drawing, a sheath 3 includes two opposed elongate side walls of substantially opposite symmetry joined along their side edges and one end to define a pocket open at the other end for registration therewithin of a knife blade 2 affixed to a handle 1 having a shoulder 12 between the ends of the handle. Each side wall has an inherent stiffness and resiliency. A metal spring band 5 has a resiliently displaceable arched portion which is located inside the sheath 3, so that a convex side of the metal spring band 5 faces the opposite wall of the sheath 3. With the knife inserted in the sheath, the spring band 5 is under tension due to the pressure of the blade 2 on the spring band 5.

As shown in Figure 2, the tip of the arched portion of the metal spring band 5 assumes a configuration adapted to slidably engage against the inner surface of the wall of the sheath 3 in order to facilitate the longitudinal movement of the pocket under the force imparted by the insertion and withdrawal of the blade, the spring band 5 also being able resiliently to bear against one flat surface of the blade. The saddle shaping shown of edges 11 of the open end of the sheath corresponds and complements the shoulder 12 of the knife handle so as to achieve a snug seated registration when the knife blade is fully inserted into the sheath. The knife handle 1 has a generally symmetrical configuration about the plane of its blade. The sheath 3 has an aperture 7 on the broad

side of the sheath wall just below the open end and the spring band 5, in the present case, is integral with an elongate loop 9, constituting an anchor portion, through an intermediate portion 6 of the band, the elongate loop 9 being outside of the sheath 3.

The aperture 7 allows the portion 6 of the spring band to pass through the sheath wall. The metal band 5 has a part 8 which extends from the portion 6 and at an angle to and towards the exterior wall of the sheath 3 so that spring band 5 and loop 9 are maintained under tension securing them to the sheath. The remaining portion of the elongate loop 9 is bent backwards or downwardly to present a convex curve of which part can resiliently bear against the adjacent outside wall of the sheath, thereby forming a spring clip for attaching the sheath to a support 10 shown in Figure 3, which can be, as shown, the top calf portion of a high boot.

It will be appreciated that the present sheath serves to preserve the cutting edge of the blade and hold the knife securely within the sheath against accidental dislodgement. Also, the sheath may be readily securely supported from wearing apparel, such as from a belt or on the waist of a bathing suit or trousers or from the top of a boot and in a manner presenting the knife handle in ready position for grasping by hand.

WHAT I CLAIM IS:—

1. In a sheath for a knife, two opposed elongate side walls joined along their side edges and one end to define a pocket open at the other end for the registration therewithin of a knife blade, one said side wall having an aperture therethrough in a region intermediate the ends of the sheath and having a configuration so as to receive in snug registration therewithin an intermediate portion of a spring metal band and so arranged as to support said spring metal band, said spring metal band including a resiliently displaceable arched portion located inside said pocket and so arranged at an angle to said intermediate portion as to extend towards said one end and present a convex side towards the other said side wall and frictionally resiliently to bear, in use, against one flat surface of a knife blade, said metal band including an anchor portion located outside said pocket, and having a part extending from said intermediate portion and at an angle to and towards the exterior wall of said sheath, so as substantially to secure said intermediate portion of said metal band within said aperture against dislodgement, said anchor portion being in the form of a loop extending towards said other end and forming a clip for releasably





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clipping said sheath to a support.

2. A sheath according to claim 1 wherein the tip of said arched portion of said spring metal band remote from said intermediate portion has a configuration adapted slidably to engage against the inner surface of said supporting sheath wall.

3. A sheath according to claim 1 or 2 wherein said loop is integral with said resilient spring metal band and wherein a free end of said clip presents a convex curve of which a part can resiliently bear against the adjacent outside wall of said sheath.

4. A sheath according to any preceding claim in which said spring metal band and said anchor portion are integral with one another, said intermediate portion of the spring metal band being arranged substantially at right angles to the extent of said resiliently displaceable arched portion and said anchor portion.

5. A combination of a knife having a handle and a fixed blade and a sheath therefor in which said sheath comprises two opposed elongate side walls of substantially opposite symmetry joined along their side edges and one end to define a pocket open at the other end for the snug registration of said knife blade therewithin, said side walls each having an inherent stiffness and resiliency, one said side wall having an aperture therethrough in a region intermediate the ends of the sheath and having a configuration so as to receive in snug registration therewithin an intermediate portion of a spring metal band and so arranged to support said spring metal band, said spring metal band including a resiliently displaceable arched portion located inside said pocket and so arranged at an angle to said intermediate portion as to extend towards said one end and present a convex side towards the other said side wall and to frictionally and resiliently bear against one flat surface of said knife blade, said metal band including an anchor portion located outside said

pocket and having a part extending from said intermediate portion and at an angle to and towards the exterior wall of said sheath, so as substantially to secure said intermediate portion of said metal band within said aperture against dislodgement, said knife handle having a generally symmetrical configuration about the plane of said knife blade and presenting to the edges of said sheath walls defining the open end of said pocket a shoulder located between the ends of said knife handle, said shoulder and the lastmentioned edges of said side walls having corresponding and complementary shaping whereby said shoulder is received in snug seated registration with said lastmentioned edges whereby said knife and sheath are releasably interlocked together.

6. A combination according to claim 5 wherein said lastmentioned edges of said sheath are generally saddle shaped and said shoulder has a corresponding and complementary shape.

7. A combination according to claim 5 or 6 wherein said anchor portion of said metal band carries a loop extending towards said other end and forming a clip for clipping the combination to a support.

8. A sheath, substantially as hereinbefore described with reference to the accompanying drawing.

9. A combination of a knife having a handle and a fixed blade and a sheath therefor, substantially as hereinbefore described with reference to the accompanying drawing.

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