June 3, 1952 H. T. DRAKE 2,599,439

SHEATHED RAZOR BLADE HOLDER

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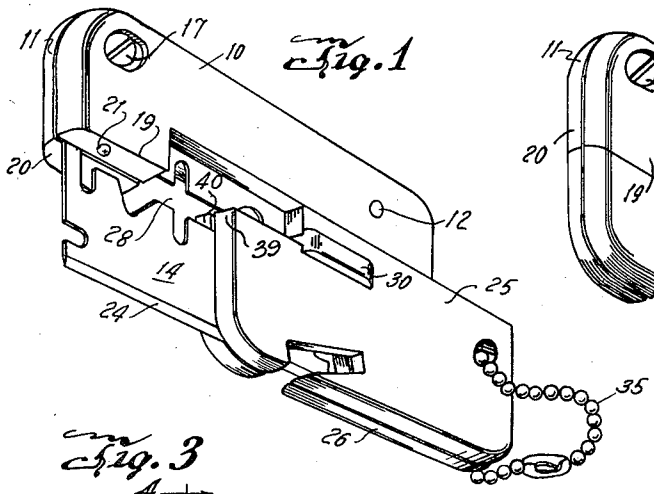


Fig. 1

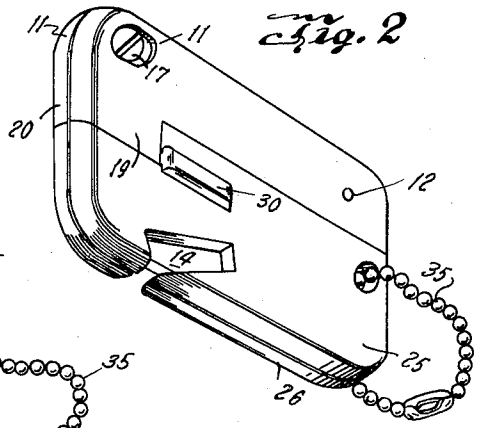


Fig. 2

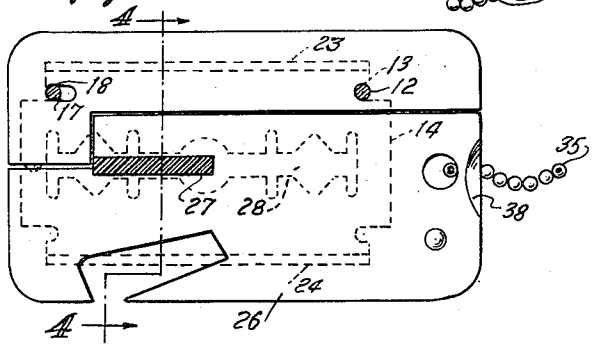


Fig. 3

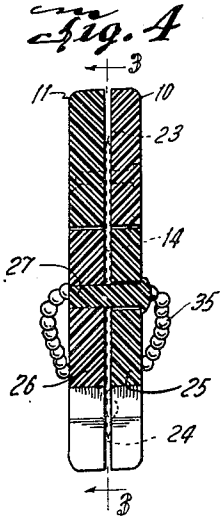


Fig. 4

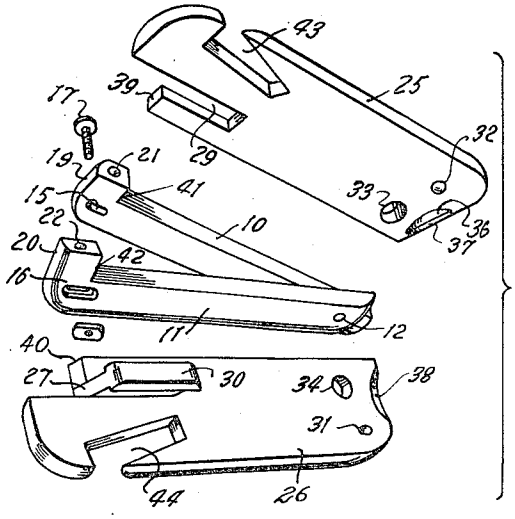


Fig. 5

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SHEATHED RAZOR BLADE HOLDER

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6 Claims. (Cl. 30—151)

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This invention relates to double edge razor blade holders and more particularly to such holders in which the edge of the blade is protected when the device is closed or not in use.

Safety razor blades having been found useful for many and varied applications beyond their original purpose, such as in tackle boxes for cutting fishing line; in sewing baskets for cutting thread and the like; in the pocket for general use, it is desirable that a holder be provided of such design as to safely retain the blade for the foregoing and other adaptations. Such a blade holder as anticipated by the present invention is formed preferably of plastic but may be made of any other suitable material and composed of a plurality of separable sections, to one of which is stationarily but removably attached an edge of a double edged razor blade to conceal the edge and to afford a handle by which the blade is manipulated in cutting. Other sections of the holder are joined together and movably connected to the blade for slidable displacement with respect to the stationary section of the holder in a manner to be presently defined. Moreover, the slidable sections of the holder are provided with oblique registering slots exposing a portion of an edge of the blade and effective, when the holder is closed, to receive and guide objects against the blade edge in cutting, yet situated so that the blade will be shielded to prevent damage to adjacent objects in the pocket or other container in which the holder is carried.

Accordingly, it is an object of my invention to provide a new and improved safety razor blade holder embodying the features set forth above.

Other objects will appear as the description proceeds, taken in connection with the accompanying drawing wherein:

Figure 1 is a perspective view of the razor blade holder showing the holder in open position;

Figure 2 is a perspective view showing the holder in closed position;

Figure 3 is a sectional view taken along line 3—3 of Figure 4 with the razor blade being indicated in broken lines to facilitate comprehension of Figure 3;

Figure 4 is a sectional view taken on line 4—4 of Figure 3; and

Figure 5 is an exploded view of the razor blade holder.

Referring now to the drawing, the illustrated embodiment of my invention comprises a pair of opposed and substantially L-shaped sections 10 and 11 which are secured together adjacent one pair of their adjacent ends by a pin 12 which

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passes through appropriate registering apertures in sections 10 and 11 and whose ends may be peened to hold the sections 10 and 11 secured loosely to each other. The pin 12 may be substituted by a protuberance on one section, in the case of plastic construction, which enters a registering aperture in the confronting face of the companion section of the holder. In the present case, the pin 12 enters into a recess 13 in the end of razor blade 14 when the sections 10 and 11 are disposed in operative position on opposite sides of razor blade 14. The other pair of adjacent ends of sections 10 and 11 are provided with tapped registering slots 15 and 16, respectively, in which engages the flat head screw 17. The screw 17 has a stationary head on one end to be non-rotatably seated in a countersink in one end of the aperture 15 so that the stationary head of screw 17 may lie flush with the outer surface of section 10. A rotatable head threaded onto the opposite end of the screw 17 is not detachable and is adapted to similarly lie in a countersink in the opposite end of the aperture. The shaft of screw 17 enters into the recess 18 in the end of razor blade 14 opposite to the end provided in the recess 13. It will be noted that blade 14 is held immovably between pin 12 and screw 17 and between sections 10 and 11. The slotted apertures 15 and 16 make possible the shifting of the screw 17 slightly to accommodate blades of different lengths.

The short legs 19 and 20 of sections 10 and 11, respectively, cover substantially half the width of blade 14 and are provided at their ends with substantially semi-spherical projections 21 and 22, respectively, whose function will be set forth below. Sections 10 and 11 cover the cutting edge 23.

In order to selectively cover the other cutting edge 24 of blade 14, I provide a pair of slidable sections 25 and 26 which are adapted to be disposed on opposite sides of blade 14 and are held together for longitudinal movement relative to blade 14 by a rib 27 which extends through the longitudinal slot 28 in blade 14. Rib 27 may be integral with movable section 26 or may be rigidly secured to the movable section by means of a suitable adhesive or in any other conventional manner. Rib 27 extends through a longitudinal slot 29 in movable section 25 and is provided with a flange 30 which overlies the outer surface of section 25 on both sides of slot 29. The inner surface of section 26 is provided with a recess 31 in which engages a substantially semi-

spherical projection 32 disposed on the inner surface of section 25.

In assembling slidable sections 25 and 26, section 26 is disposed at an angle to the blade 14 so that an end of rib 27 and flange 30 extends through a widened portion of slot 28. Section 26 and blade 14 are then moved longitudinally with respect to one another until rib 27 is disposed in slot 28 as shown in the drawing with section 26 on one side of blade 14 and flange 30 on the other side. Section 25 is next slid longitudinally over the other side of blade 14 until the slot 29 of section 25 receives the rib 27. When sections 25 and 26 are fully aligned the projection 32 enters into the recess 31 to lock sections 25 and 26 together. Rib 27 and flange 30 are of such dimensions that flange 30 exerts a continuous pressure on section 25 tending to draw section 25 toward section 26. Sections 25 and 26 are free to move together longitudinally with respect to blade 14 since rib 27 slides freely in slot 28. The longitudinal movement of sections 25 and 26 with respect to the blade is limited in one direction by rib 27 which will contact the end of slot 28 and is limited in the other direction by legs 19 and 20 which contact ends 39 and 40 of sections 25 and 26 to stop further longitudinal movement of sections 25 and 26 toward legs 19 and 20.

Sections 25 and 26 are provided with registering apertures 33 and 34, respectively, through which may extend a chain ring 35. Section 25 may be provided adjacent aperture 33 with a projection 36. Section 26 is provided with a recess 38 which extends to the end of section 26 and registers with projection 36 when sections 25 and 26 are in their operative positions. Recess 38 permits a finger nail to be inserted between sections 25 and 26 to engage projection 36 for moving section 25 longitudinally with respect to section 26 when it is desired to separate sections 25 and 26 to replace blade 14 or to turn blade 14 so that the positions of edges 23 and 24 of blade 14 are reversed. It will be apparent that the chin ring 35 must be removed before longitudinal motion of section 25 with respect to section 26 can take place.

The ends 39 and 40 of sections 25 and 26, respectively abut the sides 41 and 42 of legs 19 and 20, respectively, when movable sections 25 and 26 are in closed position, while the adjoining inner edges of sections 10 and 11 abut the inner adjoining edges of sections 25 and 26, respectively, so that the outer surfaces of sections 10, 11, 25 and 26 form a smooth flush surface. When in closed position, the projections 21 and 22 in ends 19 and 20, respectively, engage in recesses, not shown, in the adjoining edges of sections 25 and 26, respectively, so that sections 25 and 26 tend to remain in closed position until a positive effort is made to move sections 25 and 26 longitudinally with respect to blade 14, the sections bending slightly to allow projections 21 and 22 to move out of the depressions in sections 25 and 26.

It will be noted that sections 25 and 26 are of such width as to extend a substantial distance beyond edge 24 of blade 14. In order that sections 25 and 26 are provided with narrow registering slots 43 and 44, respectively, which extend inwardly at an angle from the outer edges of sections 25 and 26 to expose a portion of edge 14 even when sections 25 and 26 are in closed position. The angularity of the registering slots 43 and 44 facilitates cutting of thread, gut leaders of fishing line and the like, which objects are forcibly thrust against the blade edge with a slicing action. The slots 43 and 44 being narrow the exposed portion of edge cannot be reached accidentally by the operator's fingers even when the blade holder is carried in a pocket into which the operator's hand may be carelessly thrust.

Among the advantages of the described and illustrated razor blade holder are its simplicity of construction, ease of assembly and disassembly, positive closure, and ready availability of the cutting edge of the blade for cutting, scraping or other adaptations.

While I have described and illustrated a preferred embodiment of my invention it will be apparent that various changes and modifications can be made without departing from the spirit of my invention and I, therefore, aim in the appended claims to cover all such changes and modifications as fall within the true spirit and scope of my invention.

What is claimed is:

1. In a holder for a razor blade, a blade having two cutting edges and provided with end recesses and a central longitudinal slot, a first pair of sections disposed on opposite sides of said blade, a pair of securing means connecting said first pair of sections and being disposed on opposite ends of said blade, each of said securing means extending through one of said end recesses to fix said blade immovably with respect to said two sections, said two sections covering one of said two edges of said blade; a second pair of sections disposed on opposite sides of said blade; and a flanged rib formed on one of said second pair of sections and extending through said longitudinal slot of said blade and engaging in a slot in the other of said second pair of sections and connecting said second pair of sections together, said rib being longitudinally movable in the slot of said blade, said second pair of sections extending beyond the other of said two edges and being movable with said rib longitudinally in relation to said first pair of sections, to uncover a portion of the other of said two edges.

2. The device of claim 1 and means operatively associated with said two pairs of sections for resisting longitudinal displacement of said second pair of sections in relation to said first pair of sections when said second pair of sections is in closed position.

3. In a blade holder, a blade having two cutting edges and a longitudinal slot extending therebetween, a first pair of sections disposed on opposite sides of said blade and rigidly secured to said blade, said sections covering one of said two cutting edges of said blade, each of said sections having an end extension extending toward the central longitudinal axis of said blade; a second pair of sections disposed on opposite sides of said blade, a longitudinal rib on one of said second pair of sections extending through the longitudinal slot of said blade and into a slot in the other of said second pair of sections, a flange on said rib for releasably connecting said second pair of sections together, said second pair of sections being slidably movable along said blade toward and away from said extensions of said first pair of sections, said second pair of sections covering and extending beyond the other of said two cutting edges, said second pair of sections uncovering a portion of said other of said two cutting edges when said second pair of sections is moved longitudinally away from said extensions.

4. The device of claim 3, and means operatively associated with said two pairs of sections

for resisting displacement of said second pair of sections from closed position.

5. In a blade holder, a blade having two cutting edges and a longitudinal slot extending therebetween, a first pair of sections disposed on opposite sides of said blade and rigidly secured to said blade, said sections covering one of said two cutting edges of said blade; a third section cooperating with one section of said first pair of sections to cover one side of said blade; a longitudinally slotted fourth section cooperating with the other of said first pair of sections to cover the other side of said blade, said third and fourth sections being correspondingly recessed at one end to receive portions of said first pair of sections; a rib rigidly formed on said third section and extending through the longitudinal slot of said blade and into the longitudinal slot of said fourth section, an outwardly extending flange on said rib to hold said third and fourth sections against lateral displacement, said third and fourth sections being movable longitudinally with respect to said blade, and means for resisting longitudinal movement of said third and fourth sections.

6. In a blade holder, a blade having two cutting edges and a longitudinal slot extending therebetween, a pair of members adapted to be rigidly secured to said blade to cover one of said two cutting edges, said members having extensions parallel to the sides of said blade and extending toward the central longitudinal axis of said blade, a third member provided with a rib adapted to pass through said longitudinal slot and terminating in a flange which extends parallel to said blade; and a fourth member having a slot in which said rib engages, said third and fourth members being adapted to be slidably disposed on opposite sides of said blade to cover the other of said two cutting edges.

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