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P. J. HAAS

2,081,232

BLADE HOLDER

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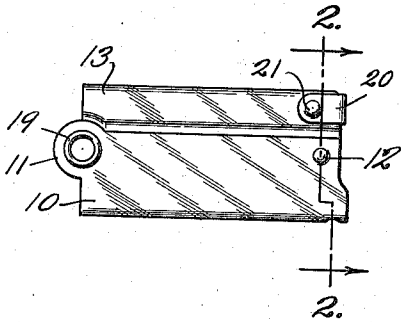


Fig. 1.

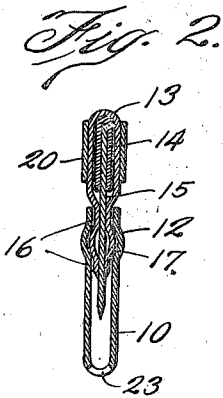


Fig. 2.

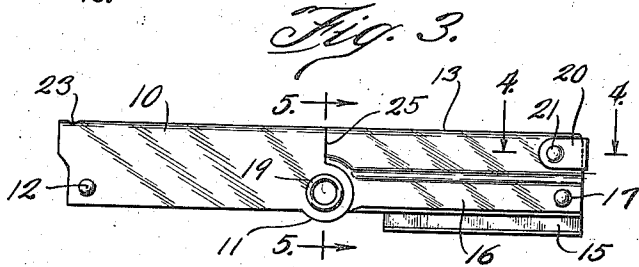


Fig. 3.

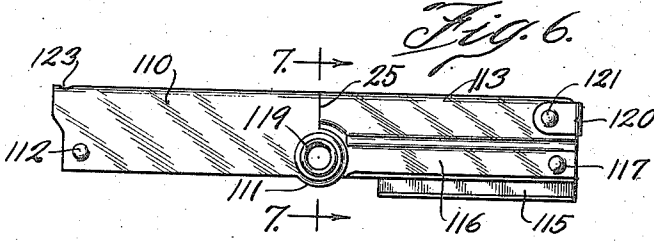


Fig. 6.

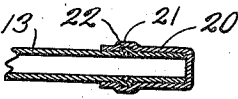


Fig. 4.

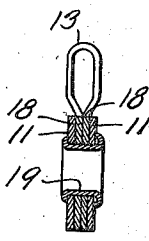


Fig. 5.

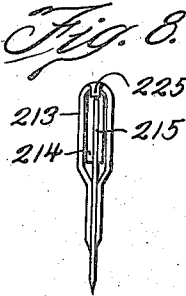


Fig. 8.

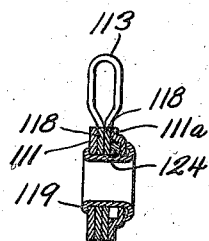


Fig. 7.

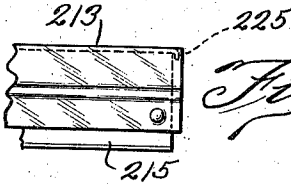


Fig. 9.

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UNITED STATES PATENT OFFICE

2,081,232

BLADE HOLDER

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4 Claims. (Cl. 30—99)

This invention relates to a holder for safety razor blades and the like.

The invention has to do particularly with a holder which provides a handle for a safety razor blade when open and a sheath for the edge of the blade when closed.

The objects of the invention include among others the provision of the following:

A new and improved razor blade holder;

An unique combination holder, handle and sheath for a razor blade;

A new and improved cutting implement.

These objects, and other objects which will hereinafter appear, are obtained by the novel arrangement, combination and construction of elements hereinafter described and claimed. A device embodying the invention is illustrated in the accompanying single sheet of drawings, hereby made a part of this application, and in which;

Figure 1 is a plan view of a blade holder embodying the invention, in closed position;

Figure 2 is an enlarged section of the device of Figure 1 on line 2—2 of Figure 1;

Figure 3 is a plan view of the same device in open position;

Figure 4 is an enlarged sectional view of a part of the device of Figure 3 on line 4—4 of Figure 3;

Figure 5 is an enlarged sectional view of the device of Figure 3 on line 5—5 of Figure 3;

Figure 6 is a plan view of a slightly modified form of the device;

Figure 7 is an enlarged sectional view of the device of Figure 6 on line 7—7 of Figure 6;

Figure 8 is an enlarged end view of a modified form of the device of Figure 3; and

Figure 9 is a plan view of a part of the blade holder of Figure 8.

Like reference characters are used to designate similar parts in the drawing and in the description which follows.

The present invention comprises a razor blade holder which has a firm attachment for a razor blade and a handle also forming a sheath. The handle and sheath part of the device is indicated by the numeral 10. The handle 10 comprises a sheet of thin spring steel bent to U-shape in cross section. At one end of handle 10 and upon each leg of the U is an apertured enlargement 11. At the opposite end of the handle 10 are opposed indentations 12 upon the inner face of the handle material, formed by punching a portion of the material outwardly of the U-shaped handle.

The blade holding member is indicated by the number 13. The blade holder 13 comprises a

sheet of spring steel similar to that of the handle 10 and bent into a substantially U-shape in cross section. Adjacent to and along the base of the U the aperture of the U is widened so that the holder 13 is adapted to receive the back 14 of a razor blade 15. Away from the closed end of the U-shaped portion of the holder 13 the sides of the holder are pressed together to provide means as at 16 to grip the blade 15. The outer edges of the gripping means 16 parallel to the edge of the knife 15 are slanted or tapered back from the blade 15 to avoid square edges which would catch on material being cut. Protuberances 17 on the narrowed portion 16 of the holder 13 are in position to interlock with indentations 12 in the handle 10 when the device is closed, to avoid accidental opening of the device. The spread of the two parts 10 and 13 may be regulated so that it takes a strong pull to move said members apart, the indentations 12 and protuberances 17 thus forming a lock preventing a child from opening the device.

At the end of the holder 13 away from protuberances 17 and upon each leg of the U-shaped material is an apertured enlargement 18. The enlargements 18 correspond to the enlargements 11 on the handle 10. The enlargements 18 fit between the two enlargements 11 with the apertures of all four in line.

An eyelet 19 passes through the apertures in the enlargements 11 and 18 and provides a pivot, joining the handle 10 to the blade holder 13.

The razor blade 15 having back 14 is slipped into the blade holder 13 by sliding the back 14 into the wide base portion of the blade holder 13 and the blade 15 between the gripping portions 16. To hold the blade 15 within the blade holder 13 after it is inserted a clip 20 is provided. The clip 20 is shown in Figure 4 and is U-shaped in section, having depressions 21 on the inside face of each leg, near the open end of the U. The depressions 21 correspond with and lock over protuberances 22 on the outside of the blade holder 13 at the wide part thereof. To insert the blade 15 the clip 20 is turned upward over the back of the holder 13, leaving the end of holder 13 open. After the blade 15 is inserted in blade holder 13 the clip 20 is turned down over the end of holder 13 so that the base of the U-shaped clip 20 closes the open end of the blade holder 13, securing the blade 15 in place therein. To remove the blade 15 the clip 20 is rotated about the depressions 21 and protuberances 22 to open the end of the blade holder. The

blade 15 may then be slipped out of the blade holder.

A modified form of the device is shown in Figures 6 and 7. The modified form of device has in general the same parts as the device of Figures 1 to 5, already described. The parts of the modified device are indicated by the same numerals of those of the device already described with 100 added to each numeral. The difference between the two devices lies in the pivot. In the modified device the eyelet 119 extends through the enlargements 111 and 118 as in the previous device. One enlargement 111a at one side of the handle 110 has the central portion thereof pressed outwardly of the device. Within such outwardly pressed portion and about the eyelet 119 is a lock washer 124. The lock washer 124 keeps the pivotal joint always under pressure and takes up the wear between the respective parts thereof. The lock washer 124 may be used to create a light or heavy friction for pivoting the handle about the blade holder.

At the end of the handle 10 or 110 is a hole 23 or 123 cut through the material at the back of the handle to provide means for attaching a string or chain to the device.

When the device is in closed position the handle 10 or 110 covers the edge of blade 115 and provides a sheath therefor. When the device is opened the end of the handle 10 or 110 and the end of the blade holder 13 or 113 adjacent the enlargements and the pivot between the two parts come together at 25 to determine the furthest opening of the device. In this open position the handle 10 or 110 is in effect an extension of the blade holder 13 or 113 and forms a means for ready handling of the device.

In place of the clip 20 in the devices already described, another way of holding the blade in the holder may be used, as shown in Figures 8 and 9. The device of Figures 8 and 9 is the same as that of the preceding figures except that clip 20 is omitted and a tongue 225 is pressed from the back of the blade holder 213 a short distance into the opening of holder 213. The open part of holder 213 is high enough to permit the back 214 of blade 215 to be slid up and down therein.

The blade 215 is inserted by slipping it into the holder, passing it beneath tongue 225 until the back 214 of the blade is past the tongue. The blade is then moved upward until the corner of back 214 lies behind the tongue 225. The tongue will then prevent any movement of the blade out of the holder until the blade is moved downward in the holder to free the back 214 from the tongue 225.

In addition to accommodating the backed razor blade 15 heretofore described and illustrated, the holder 13 is adapted to receive and grip an unbacked blade, such as the common two edged flexible blade or the unbacked single edged blade. The tension of the gripping portion 16 is sufficient to prevent displacement of the unbacked blade except in case of a heavy pull, in which case the clip 20 or the tongue 225 will contact the end of the blade and prevent the blade from accidentally pulling out. For removal the blade is moved away from the back of the holder 213 so that it will miss the tongue 225.

Where the common form of two edged blade is used the blade may be reversed and the other edge used after one edge is dulled.

What is claimed as new and is desired to be secured by Letters Patent of the United States is:

1. A blade holder for a backed razor blade, comprising a holding means U-shaped in cross section and having a gripping portion to grip such blade and an enlarged portion to receive the back of such blade, and a sheath U-shaped in cross section and opposed to said holding means and extending about the gripping portion thereof and about the edge of such blade, one end of said sheath being pivoted to one end of said holding means for movement away therefrom to provide a handle, and resilient interlocking fastening means on said sheath and said holding means at the ends thereof away from the pivot to maintain said sheath and holding means in closed position.

2. A blade holder for a backed razor blade, comprising a holding means U-shaped in cross section and having a gripping portion to grip such blade and an enlarged portion to receive the back of such blade, a sheath U-shaped in cross section and opposed to said holding means and extending about the gripping portion thereof and about the edge of such blade, one end of said sheath being pivoted to one end of said holding means for movement away therefrom to provide a handle, fastening means on said holding means at the end away from the pivot, and other fastening means on said sheath at the end away from the pivot, said two fastening means interlocking upon direct pivotal motion of said holding means and sheath together to hold said sheath in closed position about such blade.

3. A blade holder for a razor blade, comprising a blade holding means U-shaped in cross section and having a blade gripping portion and having locking protuberances on a surface thereof, and a sheath of resilient material U-shaped in cross section about the edge of such blade and pivoted at one end to one end of said holding means for movement away therefrom to provide a handle, said sheath having locking indentations in a face thereof, said protuberances and indentations resiliently cooperating to hold said sheath about the edge of such blade and being separable by pressure causing portions of said sheath to move resiliently apart.

4. A blade holder comprising a member U-shaped in cross section and having an open ended recess therein to receive a blade, an outward protuberance on each face of said member near an end thereof and having sides at approximately right angles to the surface of said member, and a blade retaining clip spanning the end of said member extending over said protuberances and having indentations with walls substantially at right angles to the inner surfaces of the clip, said indentations co-operating with said protuberances whereby the clip is pivoted to said member for movement about the end thereof to allow the open end of the recess to be obstructed against displacement of the blade therefrom or opened to allow removal of the blade.

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