May 8, 1923. 1,454,055

W. KLAMROTH

RAZOR BLADE HOLDER

Filed April 17, 1920

Fig. 1.

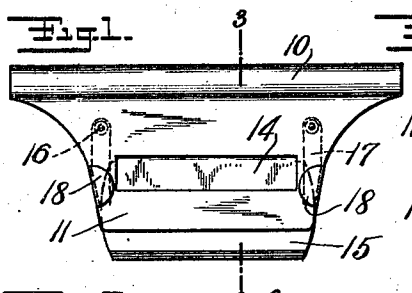


Fig. 2.

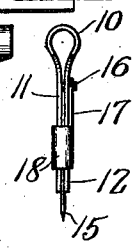


Fig. 3.

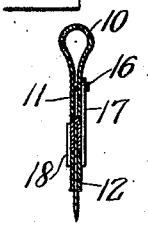


Fig. 4.

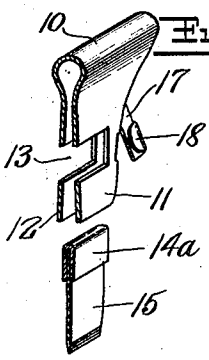


Fig. 5.

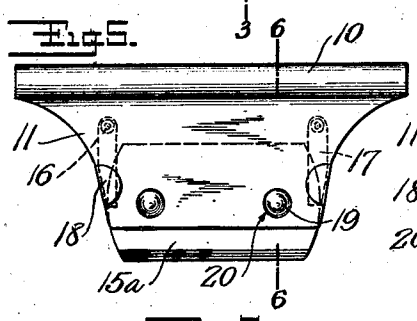


Fig. 6.

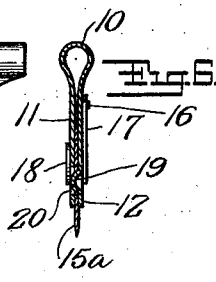


Fig. 7.

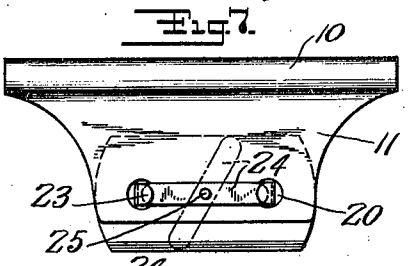


Fig. 8.

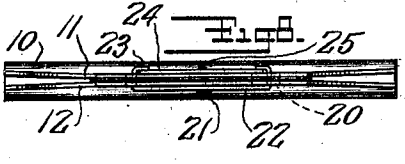


Fig. 9.

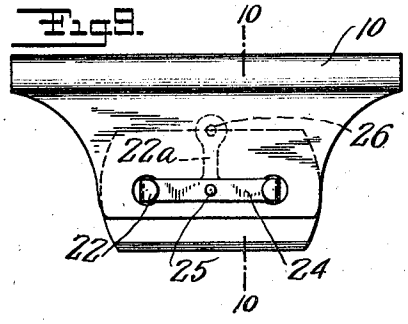


Fig. 11.

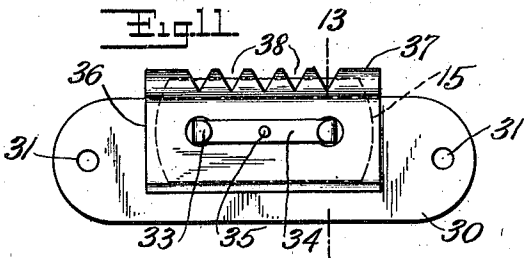


Fig. 12.

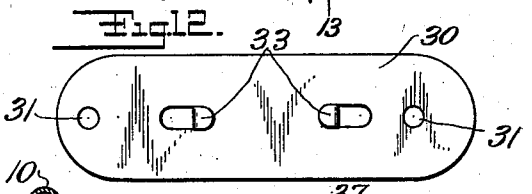


Fig. 10.



Fig. 13.

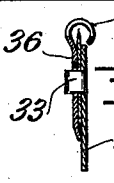


Fig. 14.

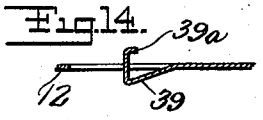
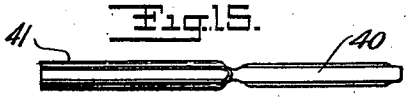


Fig. 15.



Inventor
Wilfried Klamroth
By his Attorney
E. W. Marshall

Patented May 8, 1923. 1,454,055

UNITED STATES PATENT OFFICE.

WILFRIED KLAMROTH, OF NEW YORK, N. Y.

RAZOR-BLADE HOLDER.

Application filed April 17, 1920. Serial No. 374,551.

To all whom it may concern:

Be it known that I, WILFRIED KLAMROTH, a citizen of the United States, and a resident of New York city, county and State of New York, have invented certain new and useful Improvements in Razor-Blade Holders, of which the following is a specification, reference being had to the accompanying drawing.

This invention relates to improvements in razor blade holders and its object is to provide a simple device to hold blades of safety razors in order to increase the usefulness of such blades. It is well known that after the blades of safety razors have been used for shaving most of them are thrown away although in good condition for many other uses, if suitable means is available for holding them. This invention provides a simple holder for such blades by means of which they may be used for other purposes than for shaving. More specifically, the object of this invention is to provide a clamp which has a back or handle with flanges projecting therefrom which may be so formed that blades of different shapes and constructions may be held between the flanges and with supports for the blades and a simple clamping device for drawing the flanges together against the blades.

Referring to the drawings:

Figure 1 is a side elevation of a razor blade holder which is made according to and embodies the present invention.

Figure 2 is an end elevation of the same device.

Figure 3 is a sectional end elevation, the section being taken on the line 3—3 of Fig. 1.

Figure 4 is a perspective view of a part of the device shown in the preceding figures, the parts being cut on the line 3—3 of Fig. 1 and the blade and a back therefor being shown removed from the holder.

Figure 5 is a side elevation of a modified form of construction.

Figure 6 is a sectional end elevation of the device shown in Fig. 5, the section being taken on the line 6—6 of the latter figure.

Figure 7 is a side elevation of another modified form of construction.

Figure 8 is a bottom plan view of the device shown in Fig. 7.

Figure 9 is an elevation of a still further modified form of construction.

Figure 10 is a sectional end elevation of the device shown in Fig. 9, the section of this figure being taken on the line 10—10 of Fig. 9.

Figure 11 is an end elevation of another form of holder which also embodies this invention.

Figure 12 is a side elevation of one of the parts of this holder with another part and the blade removed.

Figure 13 is a sectional end elevation of the device shown in Fig. 11, the section being taken on the line 13—13 of the latter figure.

Figure 14 is a sectional plan view of a part of one of the flange members illustrating a detail of another form of construction.

Figure 15 is a bottom plan view of a handle which may be used in conjunction with such of the holders as are illustrated in Figs. 1–10 in order to increase the usefulness thereof.

Like characters of reference designate corresponding parts in all the figures of the drawing.

10 designates a substantially cylindrical part of sheet metal from which flanges 11 and 12 project. These are normally bent apart as shown in Fig. 4 to provide for the insertion of a razor blade. In the form of construction illustrated in Figs. 1–4, the flanges are cut away as at 13 to provide for the reception of a reinforced back 14 of a safety razor blade which in some cases is a part of the blade as sold on the market, or may be as in the construction shown in Fig. 4, at 14^A, a removable piece provided with a holder of this character which may be slipped over the upper edge of a razor blade 15 in order to make it fit a holder of this particular construction.

Pivoted at 16 to the flange 12 are two clamps 17 which are provided with ears 18 which may be slipped over the flange 11 when it is brought into parallelism with the flange 12.

The operation of this form of holder is as follows:

When the flanges 11 and 12 are sprung apart as shown in Fig. 4, a blade 15 having a back 14 attached thereto or a removable back 14^A slipped over one of its edges may be placed between the flanges with the back 14 or 14^A in alinement with the recess 13 The flanges 11 and 12 may then be drawn to-

gether against the blade 15 and the clamps 17 moved into the position in which they are shown in Figs. 1–3, thus securely holding the blade in position. Part 10 is of convenient shape to be grasped in the hand so that the blade may then be used for cutting, ripping, scraping or for other desired uses.

The form of construction illustrated in Figs. 5 and 6 differs from that shown in the preceding figures in that the flanges 11 and 12 are not recessed, but the flange 12 has two embossments 19 pressed in it and the flange 11 is provided with two circular holes 20 opposite these embossments. The embossments and openings are made corresponding in size and position with the holes which are provided in safety razor blades of certain makes. In this case, a blade with such perforations is placed between the flanges 11 and 12 before they are pressed together and the embossments 19 passing through the holes in the blade 15^A and into the holes 20 in flange 11 to position the blade and hold it more securely after the flanges are pressed against the sides of the blade and held together by the clamps 17.

In Fig. 7 and 8 the flange 11 is perforated as in the structures of Figs. 5 and 6, and similar perforations are also provided in the flange 12. Riveted to the flange 12 at 21 is a spring member 22, the ends of which pass through the perforations 20 and are bent inwardly as at 23 to form hooks. A latch 24 is pivoted at 25 to the flange 11.

When a razor blade is inserted between the flanges, the ends 23 of the spring are pushed through the holes in the blade and then after the flanges 11 and 12 are pinched together the latch 24 is swung under ends 23 of the spring to lock the parts together.

The structure shown in Figs. 9 and 10 is similar to that in Figs. 7 and 8 except that in this case the spring 22^A is not pivoted to the flange 12 at a point in alinement with the rivet 25, but the spring is provided with an upwardly projecting portion which is riveted to the flange 12 at a point 26. This adds to the flexibility of the spring, which assumes a position such as that shown at 22^B in Fig. 10 at the time the blade is to be inserted between the flanges.

Figures 11 and 12 show an arrangement for utilizing blades of this same character for a string cutter. In this case a member 30 is provided with perforations 31 by means of which the device may be screwed to the edge of a table for example. Lugs are struck up from this part 30 with inturned ends 33. The latch 34 is pivoted at 35 to an outer member 36, one edge of which is turned over as at 37 and serrated as shown at 38 to form a guard over the edge of the blade which is still available for use as a string cutter.

In some cases the lugs may be struck from a part of one of the flanges such as 12 in the form shown in Fig. 14 with integral parts 39 forming the desired spring and inturned ends 39^A for engaging the latch.

If it is desired to provide an extension handle for the holders shown in Figs. 1–10, the device shown in Fig. 15 may be provided. This comprises a handle 40 from one end of which extends a sheet metal portion 41 which is adapted to be slipped over and to engage the back 10 of the holder. When such a device is provided the blade may be sharpened and may be used in other ways than is convenient without such a handle.

Various modifications have been shown and described, but I wish it understood that this invention is not limited to any specific form of construction, and I intend no limitations other than those imposed by the appended claims.

What I claim is:

1. A razor blade holder comprising a sheet metal device constructed to form a substantially cylindrical back and a pair of flanges extended therefrom having adjacent flat surfaces adapted to be pressed against the surfaces of a safety razor blade, one of said flanges being provided with parts arranged to extend through perforations in the blade and through the other member, the ends of said parts being bent inwardly, and a latch pivoted to the perforated flange and arranged to engage the bent ends of said parts to hold the members pressed against the blade.

2. A razor blade holder comprising a device constructed of spring sheet metal constructed to form a substantially cylindrical back and a pair of flanges extending therefrom having adjacent flat surfaces adapted to be pressed against the surfaces of a safety razor blade, each of said flanges being constructed to form alined perforations, a spring affixed to one of the members of the flanges having ends bent to extend through said openings and through perforations in the blade, said ends being bent inwardly to form ears, and a latch pivoted to the other flange and arranged to engage said ears to hold the members pressed against the blade.

In witness whereof, I hereunto set my hand this 12th day of April, 1920.

WILFRIED KLAMROTH.