July 20, 1926. 1,592,875

F. P. VAVRA

BLADE HOLDER

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Fig. 1.

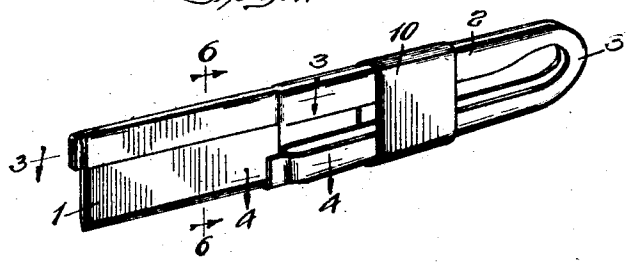


Fig. 2.

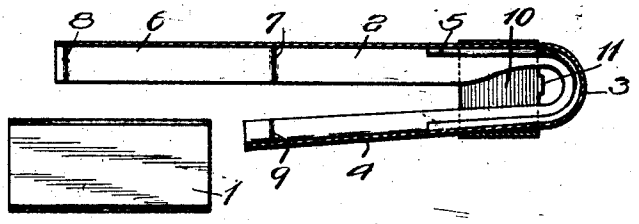


Fig. 3.

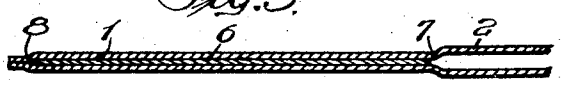


Fig. 4.

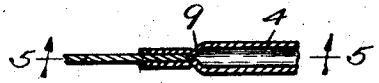


Fig. 6.

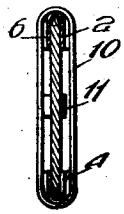
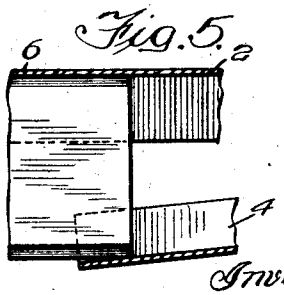


Fig. 5.



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BLADE HOLDER

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Fig. 7.

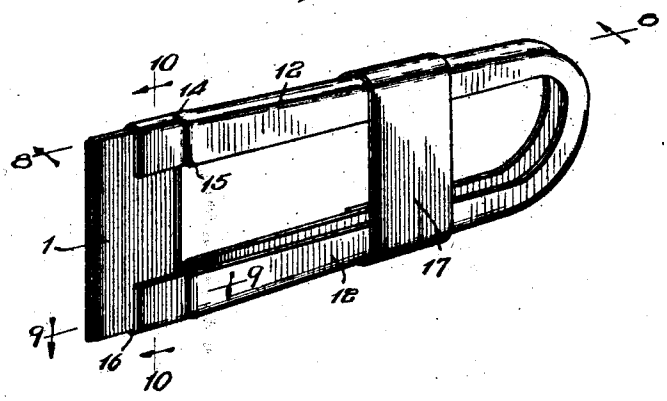


Fig. 8.

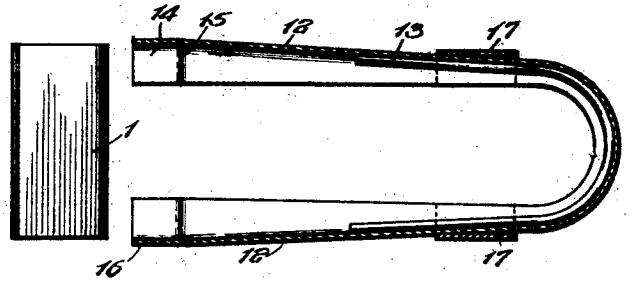
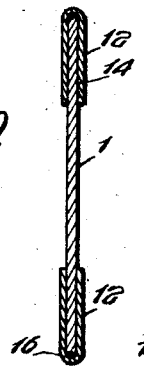


Fig. 9.



Fig. 10.



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Patented July 20, 1926. 1,592,875

UNITED STATES PATENT OFFICE.

FRANK P. VAVRA, OF CHICAGO, ILLINOIS.

BLADE HOLDER.

Application filed July 5, 1924. Serial No. 724,471.

My invention belongs to that general class of devices known as blade holders and relates more particularly to a device for holding safety razor blades, or the like, so as to provide cutters, scrapers, or the like.

The invention has among its objects the production of a holder of the kind described suitable for holding practically all kinds of safety razor blades and into which blades may be inserted, or blades removed therefrom, without requiring the use of tools.

The invention has among its further objects the production of a device of the kind described, which is simple, convenient, compact, durable, inexpensive, efficient and satisfactory for use wherever found applicable. Many other objects and advantages of the construction herein shown and described will be obvious to those skilled in the art from the disclosures herein given. To this end my invention consists in the novel construction, arrangement and combination of parts herein shown and described, and more particularly pointed out in the claims.

In the drawings, wherein like reference characters indicate like or corresponding parts:—

Fig. 1 is a perspective view of one form of the holder with the blade inserted and locked in place;

Fig. 2 is a sectional view through the same showing the blade removed;

Fig. 3 is a sectional view taken substantially on line 3—3 of Fig. 1;

Fig. 4 is a sectional view taken substantially on line 4—4 of Fig. 1;

Fig. 5 is a sectional view taken substantially on line 5—5 of Fig. 4;

Fig. 6 is a sectional view taken substantially on line 6—6 of Fig. 1;

Fig. 7 is a perspective view illustrating the modified arrangement;

Fig. 8 is a sectional view through the same with the blade removed;

Fig. 9 is a sectional view taken substantially on line 9—9 of Fig. 7; and

Fig. 10 is a sectional view taken substantially on line 10—10 of Fig. 7.

Referring to the drawings in which the preferred embodiment of the invention is shown, it may be mentioned that Fig. 1 shows the type particularly adapted for use as a knife for cutting threads, ripping or paring purposes, while Fig. 7 shows a form particularly adapted to provide a scraper for scraping paint off of wood, glass or metal or for such other purposes as it may be found desirable.

Referring first to Figs. 1 to 6, 1 represents a razor blade, for example, a discarded blade of any similar type and whether ground or sharpened at one or both edges. The handle 2 is formed of suitable size, shape and material, preferably sheet metal, which is preferably bent around, as indicated at 3, and thence extended as at 4 so that it is U-shape, the parts being folded over so that they are substantially channel-shaped. While there is considerable spring action or resiliency in the handle, a supplemental spring 5 while not necessary may be provided, if desired. As shown, a portion at the end of the portion 2 is preferably brought together so as to closely fit the blade, the same being shouldered, as indicated at 7 and 8. so that the blade will seat and be retained in place. The opposite side is formed of the shoulder 9 with the extreme edge folded together to embrace the blade. When the blade is inserted, as shown in Fig. 1, and the parts 2 and 4 brought together, the blade is engaged along one edge by the folded over portion and at the outer edge by the shoulder 8. The opposite edge is engaged by the portion 4 at the folded over portion.

Generally, I prefer to form a slight bend or shoulder at 9, as most clearly shown in Fig. 4. Obviously, the blade cannot move lengthwise and is firmly retained in the groove formed in part 2 by the opposite handle portion 4.

In order to lock the parts in operative position, I prefer to provide a slide 10 on the handle portion, which may be moved along so as to securely hold the handle from springing apart. If desired, a stop 11 may be formed on the slide so as to prevent its being accidentally removed, although, generally, I find this unnecessary.

The type of device shown in Fig. 7, 1 represents the blade, 12 the handle looped similar to the other handle and if desired provided with a supplemental spring 13. The ends of the loop are pinched together, as indicated at 14, and preferably formed with the shoulders 15. When the blade is inserted, it is tightly locked between the ends

14 and 16 and may seat firmly against the shoulders 15. A slide 17 is also provided for retaining the handle parts together.

With either construction it is obvious that any type of safety blades may be employed. One edge is exposed for use while the opposite edge, if sharpened, is substantially protected. With the type shown in Fig. 7, if there is only one sharp edge the blade may be turned about and the dull edge exposed for carrying or when the device is not in use.

In the type shown in Fig. 1, the blade may be moved back into the handle if desired. The device is particularly handy and convenient and inexpensive to manufacture, and may be nickel plated or otherwise finished.

Having thus described my invention, it is obvious that various immaterial modifications may be made in the same without departing from the spirit of my invention; hence I do not wish to be understood as limiting myself to the exact form, construction, arrangement and combination of parts herein shown and described or uses mentioned.

What I claim as new and desire to secure by Letters Patent is:—

1. In a device of the kind described, a one piece resilient handle portion formed to provide means for engaging a razor blade at one edge and at the ends thereof, and means mounted on the handle for detachably retaining the handle and blade in operative engagement.

2. In a device of the kind described and in combination, a resilient handle portion provided with a portion grooved for engagement with a razor blade at one end and the adjacent rear edge thereof, and also with a groove for engagement with the opposite end of the blade, and means for retaining the handle in operative position to clamp a blade and maintain the same in operative relation with the handle.

3. In a device of the kind described and in combination, a resilient handle clamp portion provided with a portion grooved for engagement with a blade at one end and the adjacent rear edge thereof, and also with a groove for engaging the opposite end of the blade, a spring for supplementing the resiliency of the handle clamp portion, and adjustable means for retaining the handle in operative position to detachably clamp a blade and maintain the same in operative relation with the handle.

4. In a device of the kind described, and in combination, a U-shaped resilient handle, one leg thereof constructed to fit one end and the back edge of the blade, and the other leg constructed to fit the opposite end of the blade, and means for maintaining the handle to clamp the blade between the legs and retain the same on the handle.

5. In a device of the kind described and in combination, a U-shaped resilient handle, one leg thereof constructed to fit one end and the back edge of the blade, and the other leg constructed to fit the opposite end of the blade, a reenforcing spring arranged at the closed end of the U-shaped handle, and adjustable means for maintaining the handle to detachably clamp the blade between the legs and retain the same on the handle.

6. In a device of the kind described, a U-shaped resilient handle portion, the legs thereof each grooved and constructed one to fit one end of the blade and an edge adjacent thereto, and the other to fit the opposite end of the blade and an edge adjacent thereto, and a retaining member mounted on the handle for maintaining said legs in operative clamping position.

7. In a device of the kind described, a U-shaped resilient handle portion, the legs thereof each bent over and back to provide a groove and constructed one to fit one end of the blade and an edge adjacent thereto, and the other to fit the opposite end of the blade and an edge adjacent thereto, and an adjustable retaining member mounted on the handle for maintaining said legs in operative clamping position.

8. In a device of the kind described, a handle bent back upon itself to substantially form a U-shaped handle and folded over to provide a blade-receiving groove in either leg and to provide means for engaging opposite margins of the blade to prevent movement thereof longitudinally of the groove, and means for retaining the handle in operative position to retain the blade seated in said grooves.

In testimony whereof, I have hereunto signed my name.

FRANK P. VAVRA.