May 5, 1953 A. M. FORST 2,637,105

BLADE HOLDER

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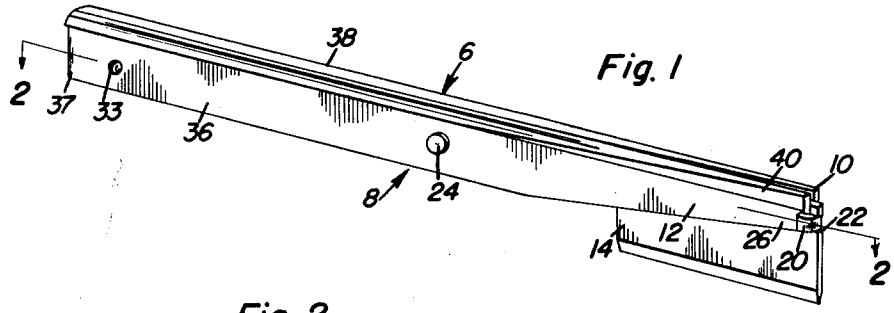


Fig. 1

Fig. 2

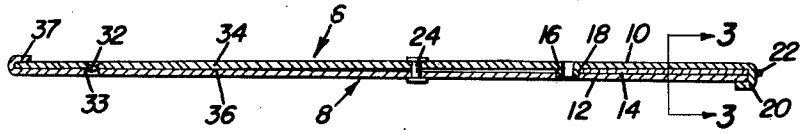


Fig. 4

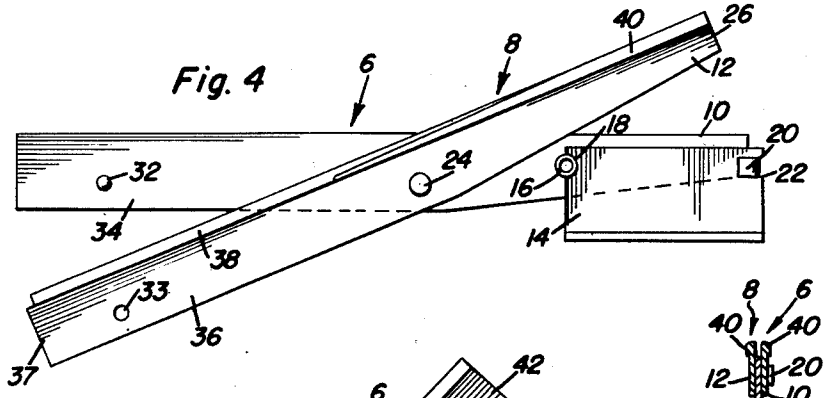
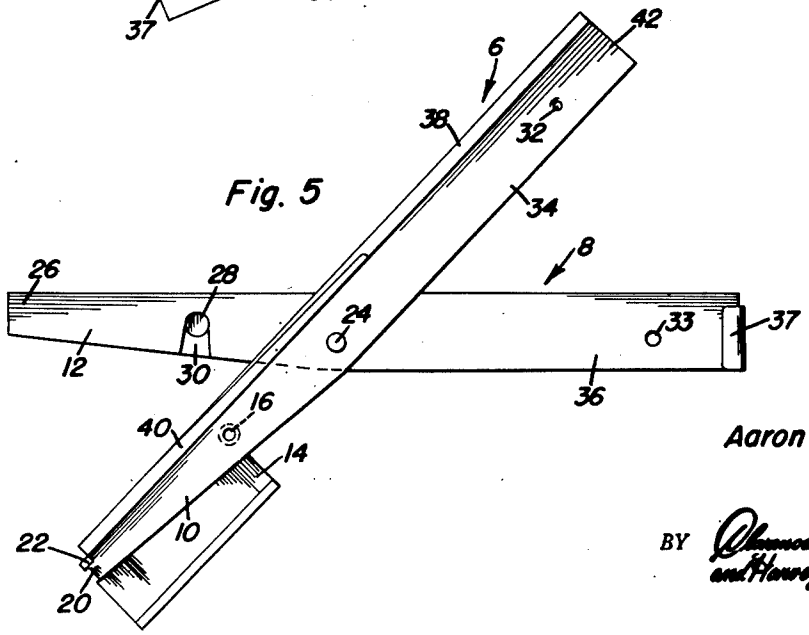


Fig. 3

Fig. 5



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BLADE HOLDER

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1 Claim. (Cl. 30—330)

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This invention relates to certain new and useful improvements in blade holders and has more particular reference to one which is expressly adapted to grip and hold a safety razor blade.

More particularly, the invention has reference to a simple and practical holder for single-edged comparatively rigid blades in which coacting clamping jaws and suitable handle means combine to securely support the blade so that it may be used in a miscellaneous manner for cutting cord and for scraping paint from window glass and in the performance of similar household chores.

The art to which the invention relates is characterized by many and varied styles and forms of handle-equipped holders for discarded safety razor blades. It is therefore an obvious object of the present invention to structurally, functionally and otherwise improve upon blade holders in the category under advisement and, in so doing, to provide a construction in which manufacturers, retailers and users will find their ordinary needs fully met.

More specifically stated, the preferred embodiment of the invention has to do with a pair of similar lever units which are hingedly connected to one another intermediate their ends, corresponding ends of the two units being shaped to provide blade clamping jaws and corresponding end portions on the opposite side of the pivotal connection being suitably shaped to provide conveniently usable handle means.

Novelty is predicated upon the stated crossed pivotally connected lever units wherein one end portion of one unit has a hook-like catch which functions as a retainer for an end portion of the razor blade and, in addition, as a catch for the corresponding end portion of the complemental lever unit.

Then, too, novelty is predicated on the crossed pivotally connected lever units with properly arranged and coordinating catches at opposite ends to hold the lever units in closed relationship, there being detent means on opposite sides of the pivotal connection wherein the means at one side of said connection also functions as a second retainer for the adjacent end portion of the stated blade.

Other objects and advantages will become more readily apparent from the following description and the accompanying illustrative drawings.

In the accompanying sheet of drawings, wherein like numerals are employed to designate like parts throughout the views:

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Figure 1 is a perspective view of a blade holder constructed in accordance with the principles of the present invention showing the complete device ready for use;

Figure 2 is a longitudinal sectional view taken on the plane of the line 2—2 of Figure 1, looking in the direction of the arrows;

Figure 3 is a cross-section on the line 3—3 of Figure 2, looking in the direction of the arrows;

Figure 4 is a side elevational view with the lever units spread or swung apart to expose the blade and the manner in which same is inserted and held partly by one of the lever units;

Figure 5 is an elevational view similar to that shown in Figure 4 looking at the opposite or reverse side of the structure.

Referring now to the drawings by reference numerals and lead lines, one lever member or unit is denoted by the numeral 6 and the complemental lever unit by the numeral 8. Generally speaking, the two units are basically the same in construction in that each is in the form of an elongated strip of suitable metal. Then, too, the outward end portions of the respective units are slightly narrowed in width and substantially duplicate in construction and define a pair of opposed jaws 10 and 12 between which the safety razor blade 14 is interposed and removably clamped in place. One jaw has a suitably formed indentation providing a boss 16 which fits removably in an existing keeper notch 18 in one transverse edge of the safety razor blade, as brought out in Figure 4. The outer end of the jaw 10 has a relatively narrow return bend providing a hook 20 and this constitutes a catch and, as also shown in this figure, said catch fits into the substantially square keeper notch 22 provided on the opposite transverse end of said blade 14. The two levers are hinged in crossed relation intermediate their ends by way of a rivet or pivot pin 24. Therefore, when the two levers are swung together in superimposed relationship, the tip end of jaw 12, that is, the end 26 swings across the blade 14 and snaps into the catch 20. Referring to Figure 5, it will be seen that the clamping jaw 12 has a clearance pocket 28 for the aforementioned detent 16 and is further provided with a recess 30 which registers with the clearance pocket and facilitates the step of swinging the detent 16 into said pocket in the manner which is perhaps best shown in Figure 2.

As before mentioned, I provide detent means to the left of the pivot 24 and also detent means to the right of the pivot as viewed in Fig. 1. The detent means at the left comprises an indenta-

tion providing a concavo-convex boss 32 which is adapted to register with an aperture or seat 33 provided therefor in the handle portion of the complemental lever unit. More specifically, the handle portion of the lever unit 6 is denoted at 34 and the handle portion of the other lever unit by the numeral 36. The free end portion of the handle portion 36 is provided with a return bend which defines a second catch 37 and this is for removable reception of the corresponding end of the handle portion 34. It follows that in addition to there being detent means to the left and right of the central hinge means 24 (16 and 26 to the right and 32 and 33 to the left) catches are provided at opposite ends. The catch 29 at the right serves not only as a keeper for the blade 14 but also as a keeper for the free end portion 26 of the lever unit 8. The free end of the lever unit 6 is releasably held in the catch or hook 37 which provides the second keeper means. To render the overall construction better balanced and of appropriate strength, corresponding longitudinal edge portions of the lever units 6 and 8 have reinforcing ribs 38—38 with the outer end portions of said ribs tapered gradually as at 40—40, thus making the clamping ends 10 and 12 fairly flexible and to enable same to yield and thus compensate for the thickness of the razor blade 14 when the latter is in place between the jaws as shown in Figures 1, 2 and 3.

In practice, the units 6 and 8 are opened up on the pivotal connection 24 as shown in Figure 4 and the single edged razor blade 14 is slipped into place. By this, it is meant that the notch 18 on one end of the blade is fitted against and partly around the detent 16, whereas the notch 22 is slipped over the catch-hook 29. By swinging the levers together in closed relationship, the tip 26 also engages in the keeper hook 28 and the end portion 42 of unit 6 simultaneously swings into the catch or hook 37. Thus, with catch means at opposite ends of a pair of pivotally joined units 6 and 8, with detent means inwardly of the catch means and on opposite left and right sides of the pivot means 24, a stable and reliable razor blade holder is had.

In view of the foregoing description taken in conjunction with the accompanying drawings, it is believed that a clear understanding of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention, the same is

susceptible to certain changes fully comprehended by the spirit of the invention as herein described and within the scope of the appended claim.

Having described the invention, what is claimed as new is:

A holder and handle for a single edged comparatively rigid safety razor blade which latter has keeper notches at its respective transverse ends, comprising a pair of similar complemental lever units each of flat form, said lever units being superimposed one upon the other and pivotally connected with each other intermediate their respective ends, corresponding ends of said lever units being gradually narrowed from their central portions toward their end portions and providing a pair of blade accommodating jaws, the opposite end portions of said lever units cooperating and providing handle means, the free end of the jaw of one unit having a relatively narrow laterally directed extension with a return bent terminal providing a catch forming hook adapted to fit in the keeper notch in the adjacent outer end of the blade which is to be held, and also to releasably engage the corresponding end of the jaw of the remaining lever unit, the interior surface of said first named jaw having a boss in line with said hook and situated in respect to the hook to engage itself in the keeper notch at the adjacent inner end of said blade, the opposite end of the second named lever unit being provided with a return bend providing a second catch forming hook and the adjacent end of the first named lever unit being releasably engaged in said last named catch forming hook, and cooperating detent means provided between the respective lever units and situated in close proximity to the second named catch forming hook and serving to retain said lever units against separable swinging relative to each other in respect to the pivotal connection in order to simultaneously render the respective catch-hooks effective.

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