July 27, 1943. H. W. DENNY 2,325,485

SAFETY RAZOR BLADE HOLDER

Filed Sept. 17, 1942

Fig. 1.

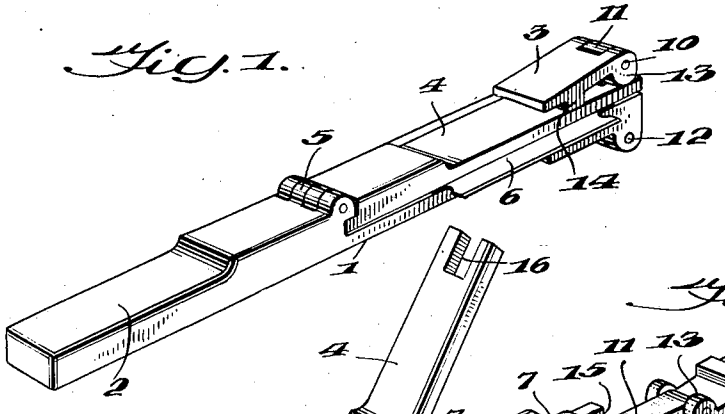


Fig. 2.

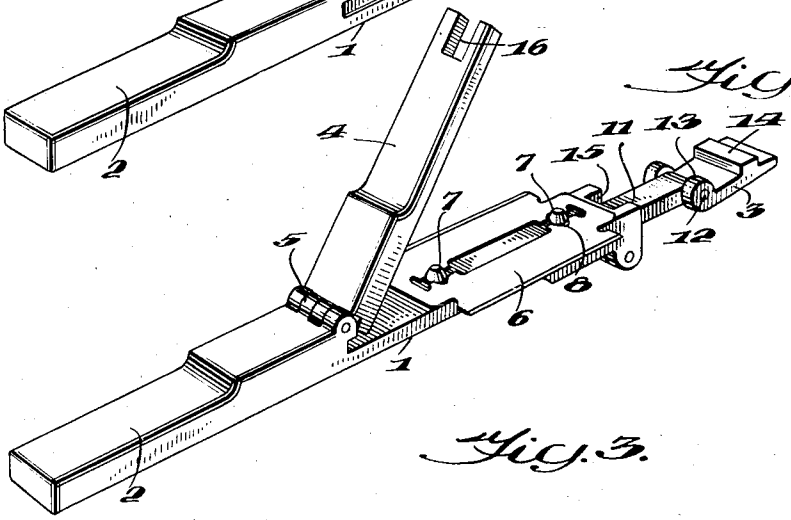


Fig. 3.

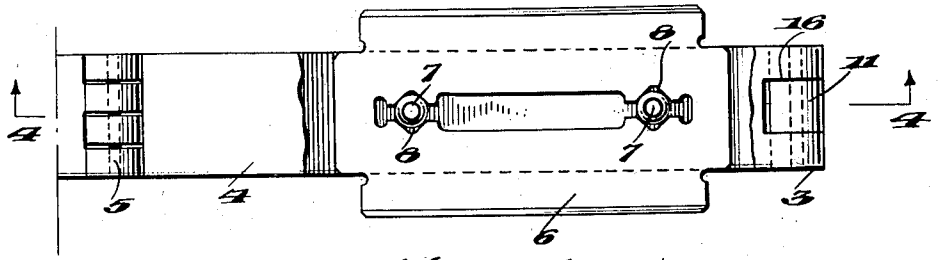
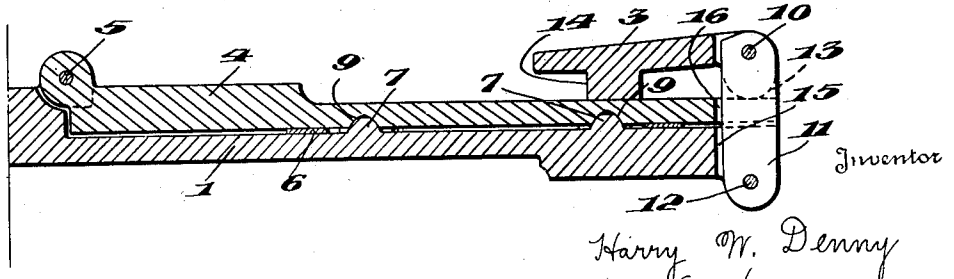


Fig. 4.



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SAFETY RAZOR BLADE HOLDER

Harry W. Denny, Wichita, Kans.; Ruth M. Denny, administratrix of said Harry W. Denny, deceased, assignor of one-half to Albert E. Stein, one-fourth to Marshall V. Denny, and one-fourth to Ruth M. Denny, all of Wichita, Kans.

Application September 17, 1942, Serial No. 458,696

4 Claims. (Cl. 30—330)

My invention relates to a safety razor blade holder.

The invention consists in a specially designed device for securely holding a razor blade while the edges are being re-dressed by what I term a reviver set forth in an accompanying application, Serial No. 458,695, filed in the U. S. Patent Office, September 17, 1942; and it may be stated that this holder is not intended for either a honing or stropping operation, but is especially intended to be used in cooperation with the reviver.

It consists mainly in four parts, all of which are hinged or pivotally connected together in such a manner, when clamped to a razor blade, that they securely hold in proper position and clamp the blade firmly while the cutting edges only are exposed and are being re-dressed by the reviving device.

This holder is preferably made of plastic material, and is light, easy to manipulate and operate, and is effective in securely clamping the blade and in facilitating its release after the reviving operation shall have been completed.

In the accompanying drawing:

Figs. 1 and 2 are views in perspective, Fig. 1 showing the device closed and in the act of clamping a blade, and Fig. 2 is an open position preparatory to placing or removing a blade therefrom;

Fig. 3 is an enlarged plan view with a portion broken away; and

Fig. 4 is a longitudinal section.

The numeral 1 represents the main portion of the holder, one end of which serves as a handle 2, and the opposite end as a support for locking lever 3.

A clamping bar 4 is connected to the main portion 1 by a hinge 5. The razor blade 6 is seated on the main portion of the holder and the rounded teats 7 are placed in the usual openings 8 in the common and accepted form of safety razor of the Gillette type. The clamping bar 4 is provided with recesses 9 to receive the ends of the teats when the clamping bar is in its closed position to hold and clamp the razor blade accurately as shown in Fig. 4.

In order to apply the required clamping pressure throughout the length of the blade, means is provided for forcing the clamping bar firmly against the blade, and in my present form of construction as a simple means for doing this the locking lever 3 is pivoted at 10 to a link 11, which in turn is pivoted at 12 to one end of the main portion 1 of the holder. The locking lever 3 is provided with a cam 13 which bears upon the outer end of the clamping bar 4 with increasing pressure as it is swung into locking position, which pressure reaches its maximum when the stop 14 formed on the lower side of the locking lever reaches the clamping bar as shown in Fig. 4. When the locking lever is in this position, the stop 14 is of sufficient thickness to hold the free end of the locking lever a suitable distance away from the clamping bar so that the operator may easily raise and lower the clamping lever.

It will be observed that the ends of the main portion 1 and the clamping lever are provided with recesses 15 and 16, respectively, in alignment with each other when together, to receive and laterally support the link 11. In that way, the link is enclosed and out of the way when the parts are clamped together, and at the same time it is embraced on each side to furnish lateral support thus preventing side movement or twisting, while providing a sturdy hinge connection between the parts and accurate placement and alignment of the several interfitting parts, which precludes lateral or sidewise movement of the parts 1 and 4 upon the blade clamped therebetween, and at the same time prevents any lateral movement or twisting of the link 4 when held in the slots or notches 15 and 16.

To fasten the blade in the holder, the clamping lever is raised as shown in Fig. 2, and the blade is placed in position as indicated in Figs. 2 and 3. Then the clamping bar is swung from the position shown in Fig. 2 to the clamping position indicated in Fig. 4, and pressure is applied by swinging the link inwardly into the aligned recesses 15 and 16 whereupon the locking lever 3 is swung over to the position shown in Figs. 1 and 4. The cam 13 exerts the required pressure on the outer end of the clamping bar 4 to effect a secure lock, and to apply the required pressure to insure holding the blade firmly and evenly between the parts 1 and 4.

To remove the blade, the locking lever and link 11 are swung out to the position shown in Fig. 2, and the clamping bar 4 is raised and the blade may then be removed. In this way, a simple and easily operated holder is provided for clamping a blade preparatory to treatment by the use of the reviver hereinbefore referred to and as set forth in my accompanying application.

The holder is intended primarily for just that purpose, namely to hold a razor blade firmly and in proper position so that the operator may accomplish the desired results with the greatest

ease and safety and with the least possible danger of cutting himself during the operation.

I claim:

1. A safety razor blade holder including four main parts, namely a main portion, a clamping bar hinged approximately at the center thereof, and between which two parts a safety razor blade is adapted to be held, one of said parts having teats adapted to enter holes in the safety razor blade, and the other part recessed to receive said teats, a link pivotally connected with one of said parts, and a locking lever pivoted to the link and having a cam eccentric with the pivot in position to bear with increasing pressure upon the other main part as the lever is swung in one direction, whereby to draw the said parts toward each other and to apply a substantially uniform pressure throughout the length of the blade held between the main portion and the clamping bar.

2. A safety razor blade holder including a main portion, a clamping bar hinged thereto between which two parts a razor blade is adapted to be placed and clamped, corresponding ends of the main portion and the hinged clamping bar provided with recesses which are adapted to be in alignment when in the position of clamping a blade, a link pivotally connected with one member, and adapted to be swung into said recesses where it is housed within the recesses and supported on its sides, a locking lever pivoted to the link and provided with a cam which engages and exerts inward pressure upon the main portion and the clamping bar and substantially a uniform pressure upon the razor blade held between said parts.

3. A safety razor blade holder including a main portion, a clamping bar hinged thereto between which two parts a razor blade is adapted to be placed and clamped, corresponding ends of the main portion and the hinged clamping bar provided with recesses which are adapted to be in alignment when in the position of clamping a blade, a link pivotally connected with one member, and adapted to be swung into said recesses where it is housed within the recesses and supported on its sides, a locking lever pivoted to the link and provided with a cam which engages and exerts inward pressure upon the main portion and the clamping bar and substantially a uniform pressure upon the razor blade held between said parts, the locking lever having a stop thereon to limit its inward movement and to hold the free end of the locking lever a limited distance from the clamping lever.

4. A safety razor blade-holder including two main parts, namely a main portion which includes a handle at one end and a flat gripping surface at the other end against which a safety blade is adapted to rest in contact throughout the entire transverse area of the gripping surface, and a clamping bar hinged to the main portion at a point between the handle and the flat gripping surface, the inner surface of which clamping bar is flat and adapted to contact the razor blade throughout the width of the clamping bar, whereby the razor blade is uniformly held throughout the entire width of the inner surface of the two members, the outer ends of the main portion and the clamping bar in substantial alignment and having aligned embracing slots or notches, and a compound fastening device which comprises a link pivoted to one member and adapted to fit and extending through the said slots or notches whereby it is enclosed and held on opposite sides therein and laterally supported against side movement or play, and the two main parts are held against lateral movement against the blade, and a handle pivoted to one end of the link, said handle having a cam eccentric which creates increasing pressure upon the clamping bar holding the latter securely against the blade as the handle is pressed toward the latter.

HARRY W. DENNY.