Sept. 4, 1951 O. H. LADD 2,566,493

BLADE HOLDER

Filed Feb. 4, 1949

Fig. 1.

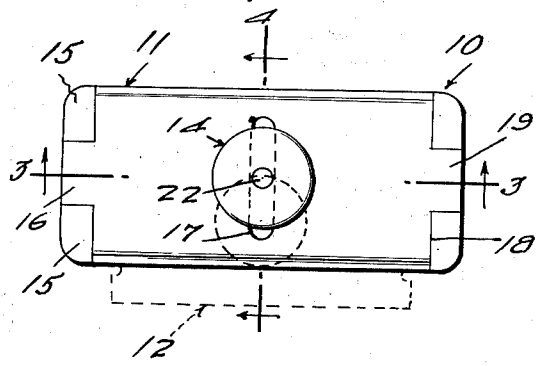


Fig. 2.

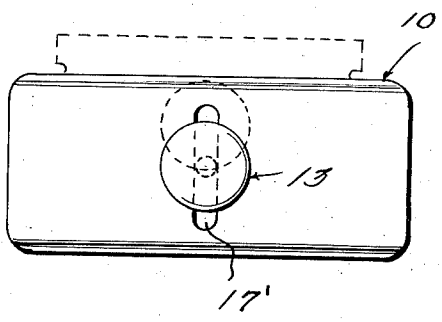


Fig. 5.

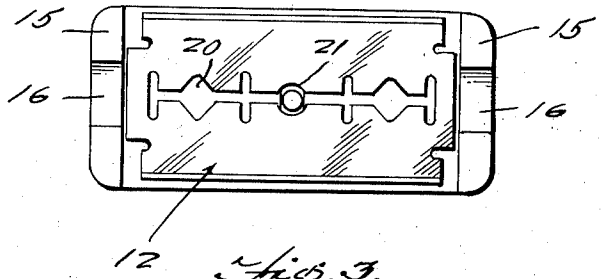


Fig. 3.

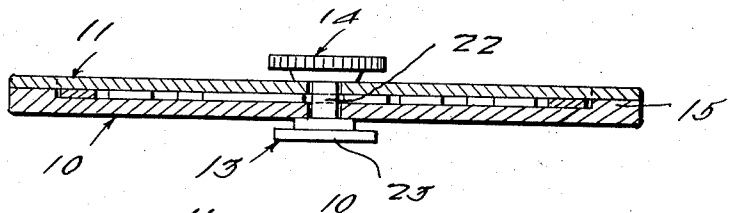
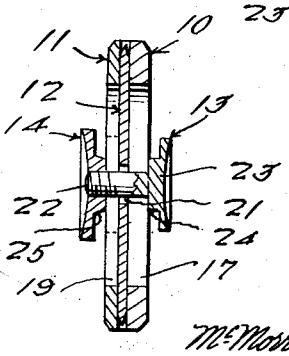


Fig. 4.



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BLADE HOLDER

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Application February 4, 1949, Serial No. 74,544

1 Claim. (Cl. 30—320)

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This invention relates to blade holders, and more particularly to a holder for safety razor blades to hold such blades for use as scrapers or knives.

It is among the objects of the invention to provide an improved safety razor blade holder having a size only slightly greater than the size of the blade itself, which utilizes a minimum number of simple parts, is strong and durable in construction, economical to manufacture, easy to use, and to disassemble and reassemble for the renewal of the blade therein, and which holds the blade in either a retracted and guarded position or in a projected, operative position and is so constructed that the blade can be easily and quickly moved from one to the other of such positions.

Other objects and advantages will become apparent from a consideration of the description and the appended claim, in conjunction with the accompanying drawing, wherein:

Figure 1 is a top plan view of the assembled blade holder;

Figure 2 is a bottom plan view of the assembled blade holder;

Figure 3 is a longitudinal cross-section taken substantially on line 3—3 of Figure 1;

Figure 4 is a transverse cross-section taken substantially on the line 4—4 of Figure 1; and

Figure 5 is a plan view of one of the inner sides of one of the two blade holding plates of the holder showing a safety razor blade in retracted position on such plate.

With continued reference to the drawing, the improved safety razor blade holder comprises, in general, two elongated, rectangular plates 10 and 11, disposable in face-to-face relationship with a safety razor blade 12 sandwiched therebetween, a clamp screw 13 extendable through the plates and the blade and a nut 14 for the clamp screw.

The plate 10 is provided on one face with respective lugs or projections 15 at its four corners. Each of these lugs is substantially rectangular in form and projects above the surface of the plate a distance substantially equal to the thickness of the blade 12 plus the thickness of the opposing plate 11. The two lugs 15 at each end of the plate 10 are spaced apart to provide therebetween a rectangular recess 16 elongated in the direction of the width of the plate and the corresponding lugs at the opposite ends of the plate are spaced apart a distance substantially equal to the length of the safety razor blade 12, to provide at each end of the plate 10 a transversely-extending shoulder which is engageable with the

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end of a blade to restrain the blade from turning or becoming skewed in the holder. At its mid-length location, the plate 10 is provided with a transversely elongated slot 17.

The elongated, rectangular plate 11 is provided with respective recesses 18 at its four corners. Each of the recesses 18 is of a size and shape to receive a corresponding lug 15 on the plate 10, the tongues 19, between the recesses 18 at the opposite ends of the plate 11, fitting into the recesses 16 in plate 10 with a close fit and the inner edges of the recesses 18 fitting against the inner shoulders provided by the lugs 15 to hold the plate 11 securely against movement relative to the plate 10, when the two plates are operatively associated, as illustrated in Figures 1 and 2.

The plate 11 is provided at its mid-length location with a transversely extending, elongated slot 17, which registers with the slot 17' in the plate 10 when the two plates are assembled together.

The double edged razor blade 12, illustrated in Figure 5 is of well known or conventional construction and is provided with a longitudinally-extending slot 20 at its mid-length location and with a centrally-disposed, substantially circular aperture 21.

The clamp screw 13 has a screw-threaded shank 22 which is extendable through the slots 17' and 17 in the plates 10 and 11 and through the aperture 21 in a blade 12 disposed between the two plates, and has on one end of the shank 22 an enlarged flat head 23 which bears against the outer surface of one of the plates when the clamp screw is operatively assembled with the plates in the manner described above, and as is particularly illustrated in Figures 3 and 4.

The enlarged, flat nut 14 is threaded onto the shank and bears against the outer surface of the other plate in opposition to the head 23 to clamp the two plates together between the head and the nut and to incidentally clamp the blade 12 between the plates. The head 23 may be provided at its underside with a circular boss 24 and the nut 14 is provided on its plate-contacting side with a chamfered boss 25 to facilitate loosening the nut on the screw when it is desired to separate the plates to renew the blade therein.

The head 23 and the nut 24 are both preferably provided with concave outer sides to provide a convenient finger grip for holding the blade holder between the thumb and forefinger of the person using the device.

By loosening the nut 14 and sliding the screw lengthwise of the slots 17 and 17', the blades can be moved between its projected or operative po-

sition, as indicated in dotted lines in Figures 1 and 2 and its retracted position as illustrated in full lines in Figures 4 and 5.

The invention may be embodied in other specific forms without departing from the spirit or essential characteristics thereof. The present embodiment is, therefore, to be considered in all respects as illustrative and not restrictive, the scope of the invention being indicated by the appended claim rather than by the foregoing description, and all changes which come within the meaning and range of equivalency of the claim are, therefore, intended to be embraced therein.

What is claimed is:

A safety razor blade holder, comprising a pair of opposed plates, said plates being provided at their longitudinal centers with the elongated transverse slots, spaced lugs formed upon the inner face of one plate at its ends, tongues formed upon the ends of the other plate to interlock with the first named lugs, said plates having a transverse guide space between them which is open at its opposite longitudinal edges, a double-edge blade arranged within the guide space and shiftable transversely therein for moving its edges through the open edges of the space and having a reduced opening at its longitudinal center, a pin having a head to bear against the outer face of one plate and extending through the reduced opening of the blade to shift the blade transversely and slideable within the transverse slots, and a nut having screw-threaded engagement with the pin and bearing against the outer face of the other plate, the arrangement being such that the plates and blade are clamped together by screwing up the nut.

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