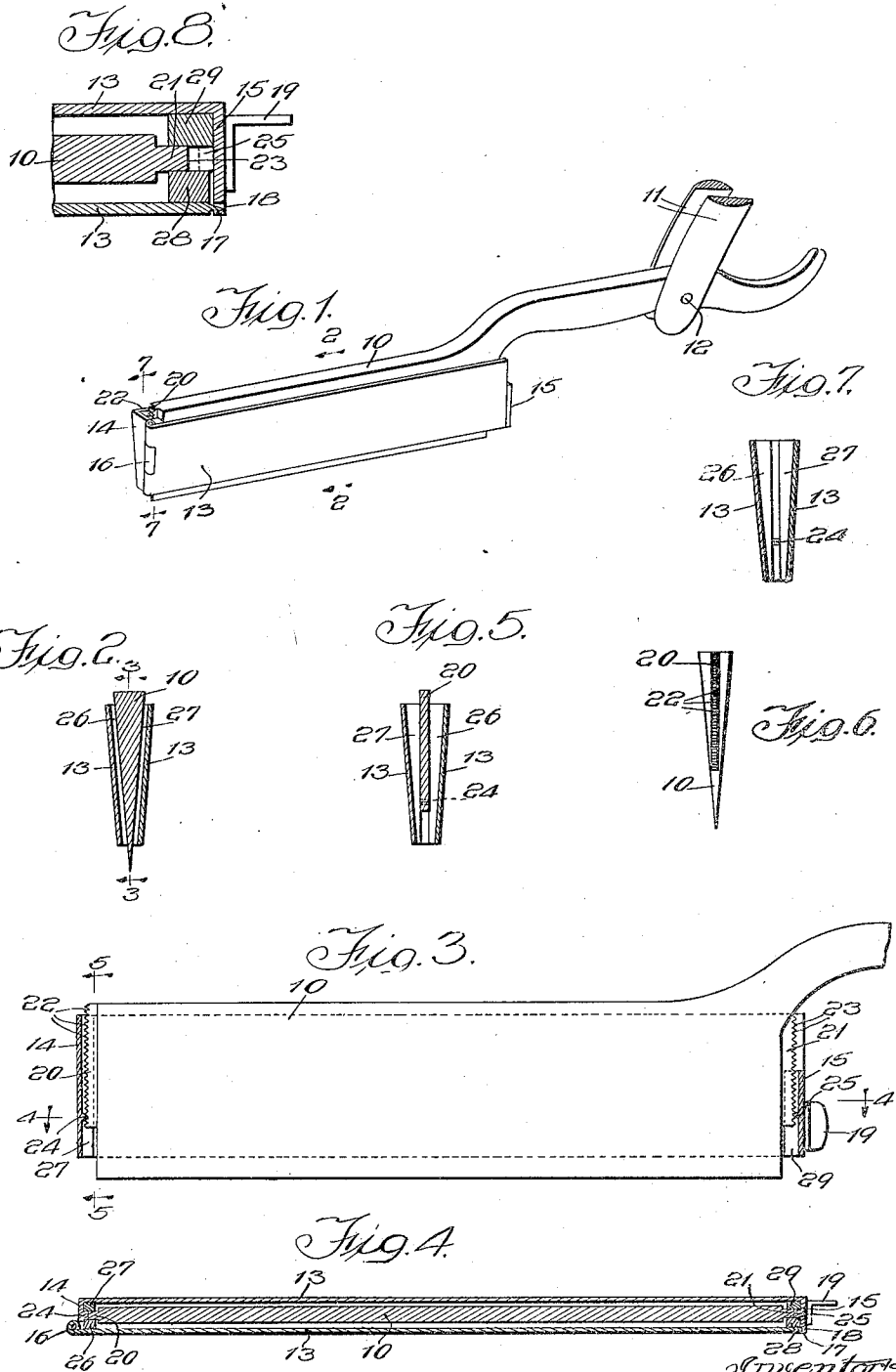


March 15, 1932.

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COMBINATION RAZOR AND GUARD

1,849,079

Filed Jan. 5, 1931



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COMBINATION RAZOR AND GUARD

Application filed January 5, 1931. Serial No. 506,677.

Our invention relates to razors and more particularly it relates to improvements providing an adjustable safety device or guard for razors of the type which have a folding blade and handle and are generally designated as common razors. It is well-known that such razors are frequently in use for long periods of time and that as a result of long usage the blades are sometimes worn away a substantial amount. The efficiency of such a razor in many cases increases with age and use either actually or in the opinion of the owner and the use of such a razor is, for that reason, continued as long as possible.

The use of a safety guard with common razors has not been extensively adopted and among the various reasons for not doing so may be named the interference of the guard with the efficient use of the razor after the blade becomes worn and also because of the inconvenience of detaching and attaching the guard to the blade for the purpose of sharpening and cleaning the razor. Safety guards as heretofore constructed for common razors have been given a fixed position relative to the back of the blade and as the blade becomes narrower by use the distance between the cutting edge of the blade and the edge of the guard diminishes to such an extent that the guard interferes with and prevents efficient operation of the razor. When this stage of wearing away of the blade has been reached the razor must either be used without a guard, or a narrower guard provided, or the razor be entirely discarded.

An object of the invention is the provision of an improved safety guard for common razors including means permitting a positive adjustment of the guard to compensate for small increments of wear of the razor blade by enabling the guard to be shifted and spaced from the cutting edge and maintained at a constant distance therefrom corresponding to the most advantageous and efficient use of the razor.

A further object of the invention is the provision of a razor blade of the kind described which is provided with end extensions cooperating with a casing to form a guard

which is easily removed in order that the razor may be cleaned and sharpened.

Still another object is the provision of an improved guard for common razors which permits the razor to be used effectively with either side next to the face in the same manner as if no guard were in use.

A further object is to generally improve common razors of the kind described.

A still further object of the invention is to provide a guard in combination with a common razor which is simple, durable, reliable, efficient and satisfactory for its intended purpose.

Many other objects and advantages of the construction herein shown and described will be obvious to those skilled in the art from the disclosure herein given.

To this end our 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 a common razor equipped with a guard embodying the principles of our invention;

Fig. 2 is a section along the line 2—2 of Fig. 1;

Fig. 3 is a view along the line 3—3 of Fig. 2;

Fig. 4 is a sectional view along the line 4—4 of Fig. 3;

Fig. 5 is a sectional view along the line 5—5 of Fig. 3;

Fig. 6 is an end view of a detail of a razor blade embodying the principles of our invention;

Fig. 7 is a sectional view along the line 7—7 of Fig. 1 drawn to a larger scale; and

Fig. 8 is a large scale detail view of a portion of the device.

Referring now more particularly to the drawings, the numeral 10 designates a common razor blade having handle members 11 attached thereto by a pivot 12. Tapered side walls 13 connected by end walls 14 and 15 form a casing providing a guard for the

blade 10. One of the side walls 13 is hinged-ly mounted on the end wall 14 by a pivot connection 16 and is detachably fastened to the end wall 15 by a latch pin 17. The wall 15 contains an aperture 18 in which the pin 17 is positioned when the casing is closed. A stem 19 on the end wall 15 provides means for moving the free end of the wall 15 outwardly to engage and disengage the pin 17 with the wall 15 in the process of attaching and detaching the casing from the blade 10. The walls of the casing are preferably formed from thin light sheets of metal of sufficient rigidity to insure that the casing will stay in position on the blade and function properly as a guard and yet have the necessary resiliency to permit yielding of the end wall 15 when pressure is exerted on the stem 19 for that purpose.

The blade 10 is provided with end extension members 20 and 21, preferably of uniform thickness, in order that the position of the casing may be shifted relative to the cutting edge of the blade. The end extension members 20 and 21 are respectively provided with a plurality of serrations 22 and 23. The ends of the casing have inwardly pointed projections 24 and 25 which are respectively engageable with any one of the adjacent serrations 22 and 23 when the casing is mounted on the blade 10. The pointed projections 24 and 25 hold the casing against movement longitudinally of the blade 10 and also against movement in the direction of the width of the blade. The cutting edge of the blade 10 projects from between the converging edges of the side walls 13 in an amount sufficient to permit the blade to perform its function efficiently with the side walls 13 serving as guards eliminating the danger of gashing or cutting the face. As the blade 10 is gradually worn away the casing may be moved towards the back of the blade by positioning the projections 24 and 25 in the next adjacent serrations in the direction of the back of the blade. The spacing of the serrations is relatively small and thereby permits slight adjustments to compensate for the wear of the blade by maintaining a substantially uniform spacing between the cutting edge of the blade and the walls 13.

Any tendency to lateral movement of the casing on the blade 10 is prevented by providing inwardly projecting members 26 and 27 at the hinged end of the casing and similar projecting members 28 and 29 at the latch end of the casing. The inwardly projecting members 26 and 27 have their inner faces parallel when the casing is closed and spaced apart a distance corresponding to the thickness of the end extension 20 of the blade 10. Similarly the inwardly projecting members 28 and 29 have their inner faces parallel and spaced apart sufficiently to engage the side walls of the end extension 21 of the blade 10.

By this arrangement the inner faces of the projecting members 26 and 27 and of the projecting members 28 and 29 are in close contact and in holding engagement with the blade 10 for all adjusted positions of the casing and prevent any lateral movement relative to the blade.

The end wall 15 of the casing preferably terminates at its forward end in alignment with the corresponding edges of the side walls 13 and stops short at its outer end a substantial distance to permit the casing to be shifted a substantial amount backwardly on the blade without interference with the handle portion of the blade.

Thus it will be seen that we have provided a guard casing for the blade of a common razor which forms an adjustable mounting to compensate for the wear of the blade and which holds the casing in all adjusted positions against any movement relative to the blade.

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

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

1. In combination, a razor blade, a casing forming a guard for the blade, adjusting means permitting the casing to be shifted to compensate for the blade becoming narrower by reason of wear, said means comprising end extension members of uniform thickness and each having a plurality of end serrations, said casing comprising side walls hingedly connected at one end and having detachable fastening means at the other end, a projection at each end of the casing so positioned as to selectively engage any one of the adjacent serrations, and means preventing lateral movement of the casing relative to the blade, said last mentioned means comprising spaced apart projecting members on the inside faces of the casing so positioned as to engage the side walls of said extensions for all adjusted positions of the casing.

2. In combination, a razor blade, a casing forming a guard for the blade, adjusting means permitting the casing to be shifted to compensate for the blade becoming narrower by reason of wear, said means comprising end extension members of uniform thickness each having a plurality of serrations, said casing comprising side walls hingedly connected at one end and having detachable fastening means at the other end, a projection on the inner face of said casing at each end so positioned as to selectively engage any one of the adjacent serrations, and spaced

apart projecting members on the inside faces
of the casing so positioned as to engage the
side walls of said extensions for all adjusted
positions of the casing to prevent lateral
5 movement of the casing relative to the blade,
the cutting edge of the blade projecting from
the casing for all positions of the casing.

In witness whereof, we hereunto subscribe
our names this 2nd day of January, A. D.
10 1931.

MILLARD C. EISEMAN.
GEORGE A. BEILFUSS.

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