

No. 649,126.

Patented May 8, 1900.

L. FLINKER.

SAFETY GUARD ATTACHMENT FOR RAZOR BLADES.

(Application filed Nov. 23, 1899.)

(No Model.)

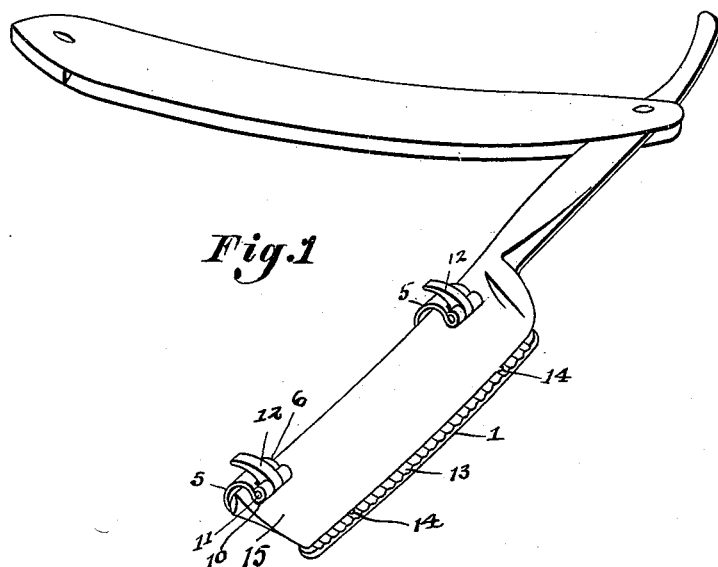


Fig. 1

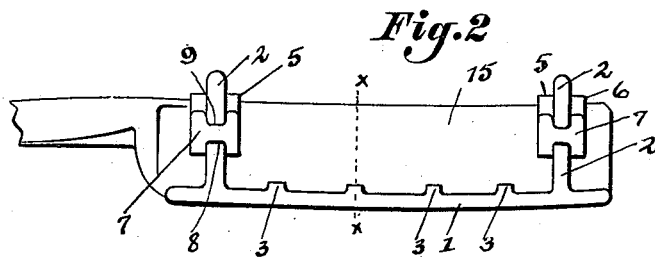


Fig. 2

Fig. 3

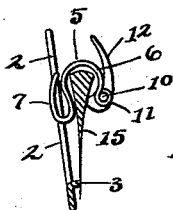
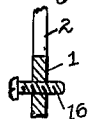


Fig. 4



WITNESSES:

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SAFETY-GUARD ATTACHMENT FOR RAZOR-BLADES.

SPECIFICATION forming part of Letters Patent No. 649,126, dated May 8, 1900.

Application filed November 23, 1899. Serial No. 737,995. (No model.)

To all whom it may concern:

Be it known that I, LEON FLINKER, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a certain new and useful Improvement in Safety-Guard Attachments for Razor-Blades, of which the following is a specification.

My invention relates to the improvement of safety attachments for razor-blades; and the objects of my invention are to provide a simple, reliable, and inexpensive attachment of this class which may be readily attached to or removed from an ordinary razor-blade and which will operate as a guard or shield against cutting of the skin, to provide improved means of adjustably supporting the guard and retaining the same at a desirable distance from the side of the blade, and to produce other improvements, the details of construction of which will be more fully pointed out hereinafter. These objects I accomplish in the manner illustrated in the accompanying drawings, in which—

Figure 1 is a view in perspective of a razor the blade of which is provided with my improved guard or safety device. Fig. 2 is a side elevation of the blade having the guard thereon. Fig. 3 is a sectional view on line *xx* of Fig. 2; and Fig. 4 is an enlarged transverse section of the guard or yoke-bar, illustrating a modified construction to be hereinafter explained.

Similar numerals refer to similar parts throughout the several views.

In carrying out my invention I employ a substantially yoke-shaped guard, of metal or other suitable material, of which 1 is the horizontal bar, and 2 the parallel arms, which project, respectively, from points near the ends of said bar. In constructing the bar 1 I preferably form the inner face thereof and upper side with inwardly-projecting lugs 3, the latter being arranged at suitable intervals. 5 represents two razor-blade-clamping bodies, one of which is adjustably connected with each of the arms 2 in the manner hereinafter described. As indicated in the drawings, each of the clamps 5 is in the nature of a metallic strip, which is formed with a double bend, producing a downturned loop portion 6 and an upturned loop portion 7, the former

being in the nature of a rounded loop, while the latter is bent inward to a partial flattened form. As indicated at 8, I form in the lower side and partially in the outer face of the loop portion 7 a slotted opening, and, as indicated at 9, I form in the upper edge portion of the outturned member 7, in alinement with said opening 8, a recess or notch. In the lower end or termination of the loop portion 6 I form an upturned hinge-roll 10, which is divided by a slotted opening or central recess formed partially in said roll and partially in the adjoining end portion of the loop portion 6. Bearing in each pair of these hinge-rolls are the end portions of a transverse hinge-pin 11, on which is mounted centrally the head portion of a curved cam-lever 12, the head of the latter beyond its pivot or hinge point being adapted to project within the loop 6 when said lever is thrown upward to the position indicated in the drawings.

On the inner face of the yoke-bar 1 I preferably form transverse corrugations 13, and on this corrugated face, at equidistant points from the outer edge of the bar 1, I form two or more small indentations 14.

The manner of connecting the yoke with the blade-clamps consists in inserting the yoke-arms 2 through the slotted openings 8 of said clamps and thence upward between the inner and outer portions of the loop 7, these loops being sufficiently flattened and having sufficient resiliency to form friction-clamps for said yoke-arms, retaining the latter in the positions to which they are forced.

In order to illustrate the use of my device, I have shown the same in position for use on a razor-blade, which is indicated at 15. It will be seen from this illustration that the back of the blade is adapted to be inserted within the loop portions 6 of the clamps 5, said blade being adapted to be temporarily locked in this position by pressing upward the cam-lever arms 12 until the heads thereof contact with the outer side of the blade with sufficient firmness to bind the latter within said loops.

In order to get a proper adjustment of the guard with relation to the cutting edge of the razor-blade, I have provided the guide-indentations 14, which indicate the line to which said blade edge should extend.

It will be observed that the inwardly-projecting lugs 3, which I form with the bar 1, will, by contact with the side of the razor-blade, serve to hold the bar 1 in desirable parallel alinement with said blade and away from the latter. In Fig. 4 of the drawings I have shown as a substitute for each of the fixed lugs 3 a set-screw 16, the latter having threaded engagements with screw-holes formed in said bar 1 and the ends of the screws being adapted to abut against the razor-blade. In this manner the distance between the yoke-bar and razor-blade may be regulated at will.

In utilizing a razor having my improved guard thereon it will be observed that the corrugations 13, which I preferably form in the face of the bar 1, will facilitate the passage of the latter between the guard and blade.

From the construction above described it will be seen that by forcing inward or outward the arms 2 of the yoke the position of the bar 1 may be regulated for use on razors having blades of various sizes and that the means of attaining this regulation or adjustment are exceedingly simple and positive.

Having now fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a safety-guard for razors, the combination with the yoke-body consisting of the

bar 1 and arms 2, of clamping-bodies 5 each comprising upwardly and downwardly bent loop portions, the loop 7 having an opening through its inner end adapted to engage arms 2, and a cam-lever fulcrumed in the outer portion of the loop 6, substantially as specified.

2. In a safety-guard attachment for razor-blades, the combination with a yoke-body consisting of a bar 1 having projections on its inner face arranged at intervals and arms 2, of clamping-bodies 5 each consisting of an upwardly and downwardly bent loop portion, said upwardly-bent loop being provided with an opening and adapted to receive and clamp the arms of said yoke and a cam-lever fulcrumed in the downwardly-bent loop portion, substantially as specified.

3. In a safety-guard attachment for razor-blades, the combination with a yoke-body consisting of the bar 1 and arms 2, said bar having separated indentations or guide-marks 14 on its inner face, of clamping-bodies 5 having oppositely-bent loop portions adapted to respectively embrace the back of a razor-blade and the arms of said yoke-body, substantially as specified.

LEON FLINKER.

In presence of—

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