No. 795,542. PATENTED JULY 25, 1905.

J. & J. C. PLETSCHER.

SAFETY GUARD ATTACHMENT FOR RAZOR BLADES.

APPLICATION FILED MAR. 31, 1905.

Fig. 1.

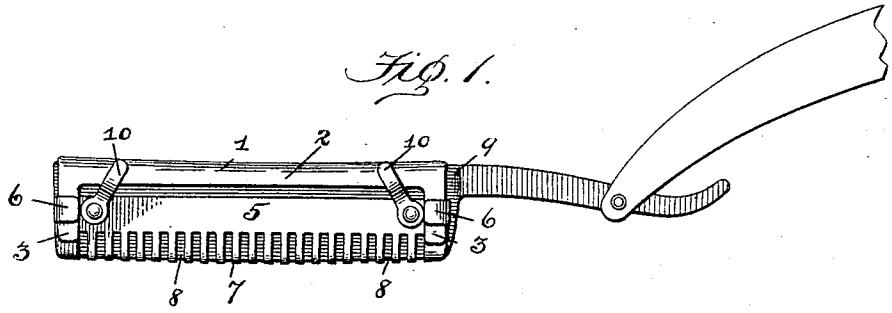


Fig. 2.

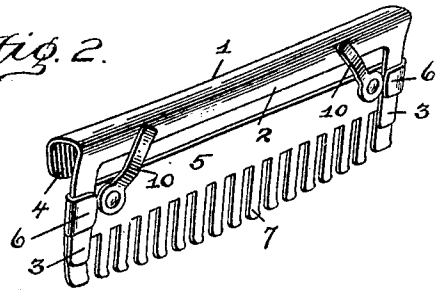


Fig. 3.

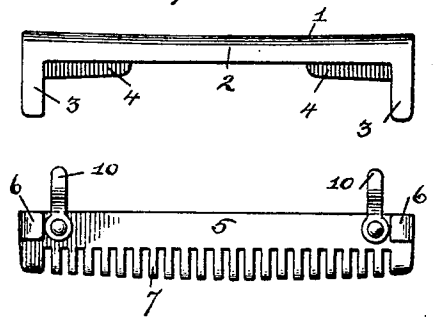
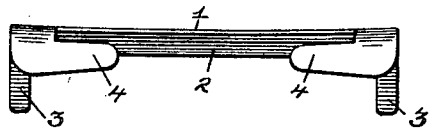


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

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SAFETY-GUARD ATTACHMENT FOR RAZOR-BLADES.

No. 795,542. Specification of Letters Patent. Patented July 25, 1905.

Application filed March 31, 1905. Serial No. 253,029.

To all whom it may concern:

Be it known that we, JOHN PLETSCHER and JOHN C. PLETSCHER, citizens of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Safety-Guard Attachments for Razor-Blades, of which the following is a specification.

Our invention relates to improvements in safety-guard attachments for razor-blades, and has for its object to provide a simple and improved device of this character which may be readily attached to or removed from the blade and which can be quickly and thoroughly cleaned after use.

Another object of the invention is to provide a construction of guard which may be manufactured by the stamping process, so that the cost may be minimized, and also to provide a construction that will permit its attachment and adjustment to blades of various widths.

The invention is illustrated in the accompanying drawings, wherein—

Figure 1 illustrates a side elevation of a razor-blade provided with our improved guard. Fig. 2 illustrates a perspective view of the detached guard. Fig. 3 illustrates a side view of the two guard parts separated, and Fig. 4 shows a rear elevation of the upper guard part.

Referring to the drawings by numerals, 1 designates a channel-bar which is provided at its outer side with a downturned horizontal flange 2 and downwardly-projecting arms 3, one at each end, and at the rear side said channel-bar is provided at each end with inwardly-extending spring-clamps 4. These spring-clamps extend in a direction substantially parallel with the horizontal flange 2, and the ends of said clamps point toward each other and yield in a horizontal direction.

The guard-plate 5 is provided at each end with a loop or keeper 6, which in the present instance comprises a tang which is bent outwardly and then back in a direction parallel with the guard-plate and at the front side thereof. The lower edge of the guard-plate is provided with a plurality of teeth 7, having a comb-like appearance. The lower edge of the guard-plate is preferably curved slightly in a lengthwise direction to conform to the curvature of the cutting edge 8 of the razor-blade 9. The guard-plate is provided at each end with a pivoted spring-clip 10, and these clips have position adjacent the end loops 6, so that they may be swung from a horizontal toward a vertical position.

In practice the two parts forming the guard are secured together by the downwardly-projecting arms 3, passing through the loops 6, so that the guard-plate may have a vertical movement on said arms 3. The device is then attached to the razor-blade 9 by inserting the upper broad edge of the blade in the end of the channel-bar and between the downturned flange 2 at the front side and the spring-clips 4 at the rear side of the channel-bar. In doing this the spring-clips will yield outwardly as the blade is inserted and by frictional engagement hold the channel-bar to the blade. After the channel-bar is in position the guard-plate may be moved on the arms 3, so as to adjust or regulate the position of the teeth with respect to the cutting edge 8. When this adjustment is made, the pivoted spring-clips 10 are turned upwardly over the down-flange 2 of the channel-bar 1 and by spring contact hold the guard-plate in its adjusted position.

From the foregoing description it will be understood that the rear side of the razor-blade that is to contact with the face is free of objections and there are no hinge-clips to become clogged with soap. By this construction the device may be readily and thoroughly cleaned.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a safety-guard for razors, the combination with a channel-bar provided with a plurality of downwardly-projecting rigid arms, of a guard-plate slidably engaging the rigid arms of the channel-bar and means for clamping the guard-plate and channel-bar together to hold the guard-plate in the adjusted position on the rigid arms of the channel-bar.

2. In a safety-guard for razors, the combination with a channel-bar provided at one side with downwardly-projecting arms and at the other side having one or more spring-clips, of a guard-plate adjustable on the arms of the channel-bar, and means coacting between the guard-plate and said channel-bar for holding the plate in the adjusted position.

3. In a safety-guard for razors, the combination with a channel-bar provided at one side with downwardly-projecting arms, of a guard-plate having loops through which the arms on the channel-bar project and clamp devices coacting between the guard-plate and

channel-bar to hold the guard-plate to said channel-bar.

4. In a safety-guard for razors, the combination with a channel-bar provided with a downwardly-projecting arm at each end, of a guard-plate having a loop at each end to receive the arms on the channel-bar, and a clamp device pivoted to each end of the guard-plate adjacent the said loops and arranged to clamp the channel-bar to hold the guard-plate thereto.

In testimony whereof we affix our signatures in presene of two witnesses.

JOHN PLETSCHER.
JOHN C. PLETSCHER.

Witnesses:
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