E. REIZENSTEIN.

SAFETY RAZOR.

APPLICATION FILED FEB. 9, 1906.

953,058. Patented Mar. 29, 1910.

Fig. 1.

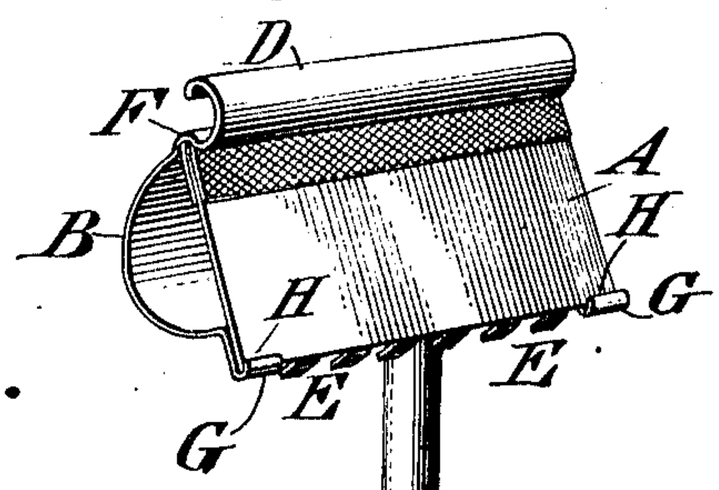


Fig. 2.

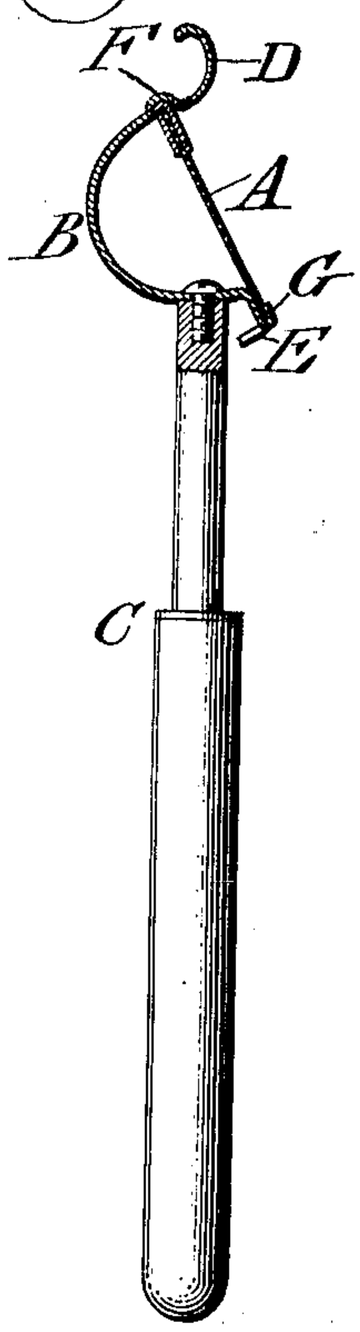


Fig. 3.

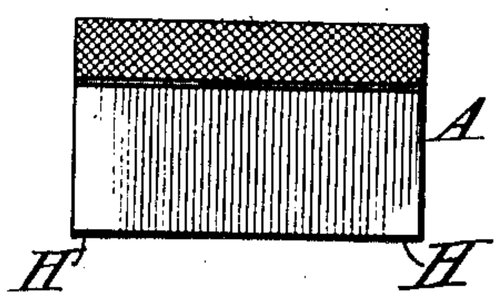


Fig. 7.

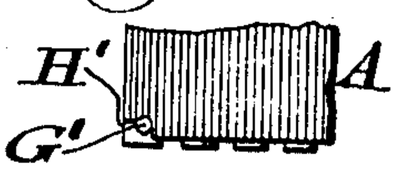


Fig. 4.

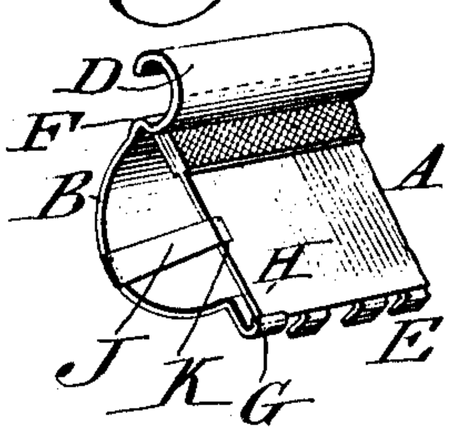


Fig. 5.

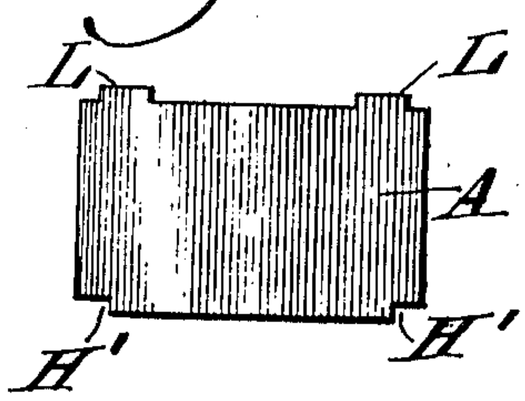
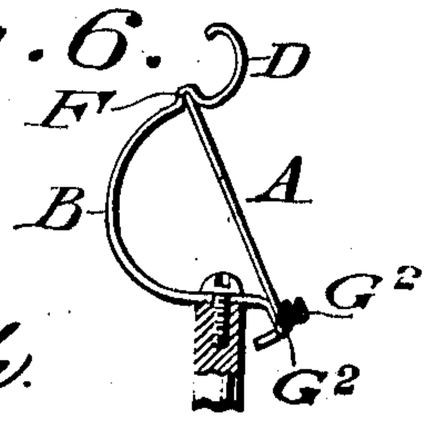


Fig. 6.



Witnesses

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UNITED STATES PATENT OFFICE.

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SAFETY-RAZOR.

953,058. Specification of Letters Patent. Patented Mar. 29, 1910.

Application filed February 9, 1906. Serial No. 300,217.

To all whom it may concern:

Be it known that I, EMILE REIZENSTEIN, a citizen of the United States, residing at Waltham, in the county of Middlesex, State of Massachusetts, have invented a new and useful Safety-Razor, of which the following is a specification.

My invention consists of a razor of the order known as safety, embodying a resilient head or holder for the blade and provided with novel means for controlling the opposite portions of said blade.

It also consists of a guard comprising an integral member of said head and holder, thus providing a device composed of few members and of simple and inexpensive construction.

Figure 1 represents a perspective view of a safety razor embodying my invention. Fig. 2 represents a section thereof taken substantially through the center of the head and blade. Fig. 3 represents a face view of the razor blade. Fig. 4 represents a perspective view showing another feature of the razor. Fig. 5 represents a face view of a modified form of the razor blade. Fig. 6 represents a perspective view of another modification. Fig. 7 represents a face view of a portion showing another modification.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings: A designates a razor blade and B designates a head or holder therefor. C designates a handle on said holder for conveniently operating the razor. The head B is constructed of a piece of resilient metal or material bent or deflected to form a body of somewhat semi-cylindrical or trough-shape having at the upper terminal the tongue D and at the lower terminal the guards E. By trough-shape, I mean a substantially U-shaped piece, as seen clearly in Figs. 1, 2, 4 and 6. On the inner face of the head, adjacent to the place of connection of the tongue D, is the longitudinally-extending channel F, which is adapted to receive the back of the blade A. Projecting upwardly from the sides of the lower terminal of the head are the turned-up lips G forming channels with the adjacent portions of the head B, which channels face the channel F and which are adapted to receive the edge portions H of the blade, thus being firmly connected with said head and held in position thereon, it being evident that its cutting edge is adjacent to the guards E as usual in articles of the class. It will be seen also that in order to remove the blade, the upper portion of the holder is drawn rearwardly by means of the tongue D, whereby the walls of the channel F are disengaged from the back of the blade, thus releasing said back, after which the edge portion may be moved from the lips G and the blade thus being fully disconnected from the head. In order to restore the blade to position, the cutting edge is presented to the guards E and the portions H are fitted in the lips G when the back of the blade is pressed against the relative part of the head, said part then yielding, when said back then springs into the channel F, the resiliency of the material of the head now causing the latter to bear against said back and force the portions H into close contact with the lips G and as said back is embraced by the walls of said channel and subjected to the inward pressure of the upper portion of the head, it is evident that the blade is controlled and so firmly retained on the head without the necessity of slots as such formed therein, or any member of the head being required to enter such slots while also being prevented from longitudinal displacement.

The tongue D is adapted to rest against the face and insures the razor being held at the proper angle during shaving.

In Fig. 4, I show a tongue J projecting from the side of the head and adapted to enter a recess K on the adjacent end of the blade, so as to laterally interlock the latter on the head.

In Fig. 5, there are shown on the back of the blade, the tongues L which are adapted to enter recesses in the upper portion of the head and in said figure there are also shown on the edge portion thereof, shoulders H′ which are adapted to engage studs G′ on the head in lieu of the lips G.

In Fig. 6, I show a plurality of lips G^2, G^2, into either of which the portions H of the blade may be seated, so as to place the cutting edge of the blade close to or farther from the guard.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. In a safety razor, the combination with a head member of trough-shape having guard teeth at its edge and blade holding lugs adjacent the corners, of a normally acting spring pressed clamping jaw movable

toward and from the said lugs and having provision for supporting and securing the opposite edge of the blade and outwardly projecting means for moving the clamping jaw outward to release the blade and permit its removal and replacement without interference on the part of the said clamping jaw.

2. In a safety razor, a blade holder composed of a trough-shaped head of resilient material, both sides of said head being provided with means integral therewith for grasping and holding a blade, and means for securing the handle near one of said means, whereby one is rigid and the other resilient.

3. In a safety razor, a blade-holder composed of a head of resilient material, means for seating the back of the razor at one end of said head, a tongue beyond said seating means, and means for locking the edge portion of said blade at the other end thereof.

4. In a safety razor, a blade-holder composed of a head of resilient material, a channel and a tongue beyond the same at one terminal of said head, lips on the other terminal of said head and a blade having its back adapted to enter said channel and its edge portion adapted to be engaged by said lip.

5. A safety razor consisting of a blade, a blade-holding device composed of a trough-shaped head, a tongue on one terminal of said head, a channel in the head at the base of said lip, the same being adapted to receive the back of the blade, a tongue on said head beyond said channel, a guard on the other terminal of said head and means on the latter-named terminal to interlock cutting edge portions of said base therewith.

6. The combination of a resilient blade-holding head having a lip and a tongue, combined with a blade for a safety razor having a cutting edge portion engaging said lip at one edge and at the other embraced by a portion of the head opposite the lip, whereby the blade may be inserted or removed by outward pressure on said tongue.

7. In a safety razor, a blade holder composed of a trough-shaped head of resilient material having at one side of said head a longitudinally extending channel, and at the other side of said head a channeled member provided with lips, said channel being adapted to seat therein and embrace the back of a blade and said lips being adapted to seat therein and hold an adjacent portion of the cutting edge of said blade.

8. In a safety razor, a blade-holder composed of a head of resilient material having integral tongue at one edge, beyond its blade-holding portion and a lip and a guard at the cutting portion of the razor, said lip and guard being integral with said head.

9. In a safety razor, a blade holder composed of a head of resilient material, a lip and guard at the point to be occupied by the cutting portion of the blade, and a tongue at the back thereof, there being a recess in the head adjacent said tongue, said lip, guard and tongue being integral with said head.

10. In a safety razor, a head of resilient material having at opposite sides means for embracing and frictionally holding the edge and back of a blade, and a forwardly projecting tongue extended beyond the back-holding portion and movable away from the back of the blade to allow the blade to be withdrawn in the direction of the movement of the tongue.

11. In a safety razor, a blade holder comprising a trough-shaped resilient head having a channel at right angles to its curvature at one side of said head thereof to receive the back of a blade, and on the other side of said head means for engaging the cutting edge portion of such blade, the blade being adapted to be held solely by the resilient pressure of the head.

12. In a safety razor, a blade holder formed of a trough-shaped integral resilient piece and having at opposite sides means to seat, hold and control respectively both the back and cutting edge of a blade, the portion at one side being movable away from the back of the blade to allow the blade to be withdrawn in the direction of the movement of such portion.

13. In a safety razor, a blade holder composed of a trough-shaped head of resilient material, both sides of said head being provided with means for grasping and holding a blade, and a handle secured near one edge, whereby the adjacent holding means are practically rigid and that portion of the head between the handle and the other holding means is resilient.

14. In a safety razor, a blade holder composed of a trough-shaped head of resilient material, both sides of said head being provided with means for grasping and holding a blade, and a handle secured near one edge, whereby the adjacent holding means are practically rigid and that portion of the head between the handle and the other holding means is resilient, the head being formed at the edge opposite the attachment of the handle with a projecting tongue.

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