

June 18, 1935.

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2,005,164

RAZOR

Filed Jan. 19, 1934

Fig. 1.

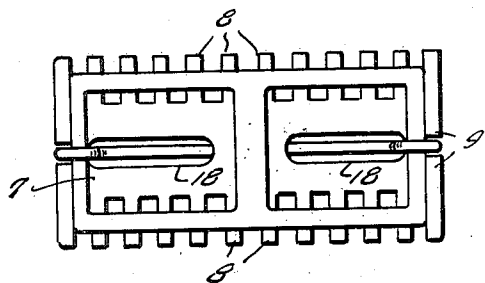


Fig. 3.

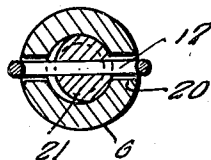


Fig. 4.

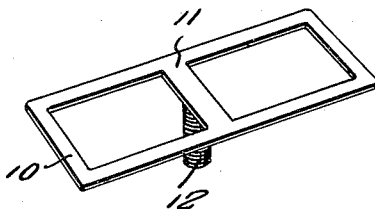


Fig. 2.

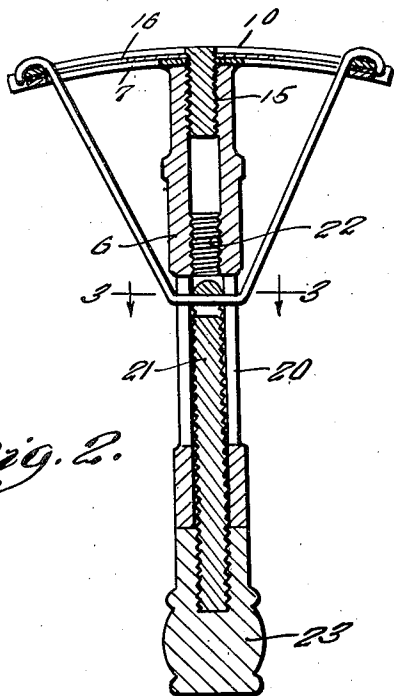


Fig. 6.

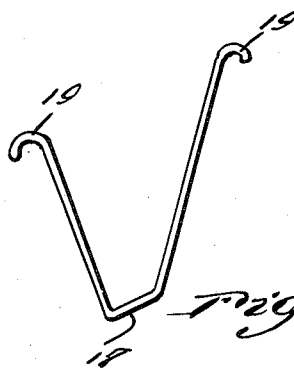
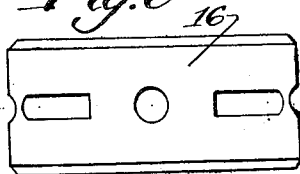


Fig. 5.

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2,005,164

RAZOR

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Application January 19, 1934, Serial No. 707,355

4 Claims. (Cl. 30—12)

This invention relates to certain new and useful improvements in razors and particularly to the types known generally in the art as "safety razors."

5 In accordance with the present invention a safety razor is provided wherein the guard and cap are flexible, so as to permit of use of the razor with the parts in either a flat or longitudinally curved condition.

10 Further in accordance with the present invention a razor of the character above mentioned is provided having simple and efficient means for securing the guard, cap, and blade clamped therebetween, at the desired curvature.

15 The invention together with its objects and advantages will be best understood from a study of the following description taken in connection with the accompanying drawing wherein:

20 Figure 1 is a top plan view of the razor with the blade removed.

Figure 2 is a vertical sectional view through the razor with the guard, cap and blade in a longitudinally curved condition.

25 Figure 3 is a sectional view taken substantially on the line 3—3 of Figure 2.

Figure 4 is a perspective view of the cap and

Figure 5 is a perspective view of a yoke or substantially U-shaped member to be hereinafter more fully referred to.

30 Figure 6 is a plan view of the blade.

Referring to the drawing by reference numerals it will be seen that the razor comprises a substantially hollow handle 6, a guard member 7 that is preferably formed of spring metal, and a cap 10. The longitudinal side edges of the guard 7 are suitably formed to provide guard teeth 8 while the end edges of the member 7 are thickened at opposite sides of the longitudinal median to provide combined guards and abutments 9.

35 The cap 10 as clearly shown in Figure 4 is of rectangular, skeleton frame structure and is formed of spring metal. Intermediate its ends the cap 10 is provided with a cross bar 11 and secured thereto, in any suitable manner, preferably by being integral therewith, is a threaded pin 12 that is accommodated in a suitable opening in the guard 7 and is adapted to be screwed into the threaded end 15 of the handle 6 as shown in Figure 2 for securing the razor blade 16 and guard 7 in position. It will be noted that the ends of the cap 10 abut the parts 9 of the guard 8 as shown clearly in Figure 1.

40 For flexing the guard 7, blade 16, and cap 10 there is provided a substantially U-shaped or

yoke member 17 that has the legs thereof at the free end accommodated in slots 18 provided in the guard 7, and terminating in hooks 19 that engage the ends of the cap 10 and are accommodated between the abutments 9 in a manner clearly shown in Figures 1 and 2.

Intermediate its ends the handle 6 is provided on opposite sides thereof with slots 20 to accommodate the member 17 as shown in Figure 2. At the closed end thereof member 17 is also engaged in a transverse opening provided in a threaded stem 21 that is accommodated within the handle 6 and is threaded for engagement with the screw threaded portion 22 of the handle when the yoke 17 is not to be used, as when a substantially flat razor is desired. For the stem 21 there is provided a suitable knob 23 that is screw threaded on the outer end of the stem as shown.

In actual practice the blade 16 is clamped between the guard 7 and the cap 10, the threaded stem 12 of the cap 10 being screwed into the threaded end 15 of the handle 6 as shown and as thought to be readily apparent to those skilled in the art. When the razor is to be used with the blade in a substantially flat condition, the yoke member 17 is dispensed with; the knob 23 is unscrewed from the stem 21, and the stem 21 is then inserted longitudinally into the handle 6 and the inner end of the stem screwed into engagement with the threads 22 of the handle 6 to such an extent that preferably the outer or free end of the stem 21 projects a slight distance beyond the outer or free end of the handle 6. The knob 23 is then threaded onto the projecting end of the stem 21 and the parts are in position for using the razor in the usual manner.

40 When it is desired to use the razor with the blade 16 curved the member 17 is used in the following manner; the stem 21 is unscrewed, the yoke member 17 passed through the opening in the stem and the slot 20 of the handle, after which the legs of the yoke are passed through the slots in the guard and blade, and the hooks 19 thereof engaged with the ends of the cap and guard as shown. Then by turning the knob 23 in a clockwise direction and while in abutting engagement with the free ends of the handle 6, the stem 21 is caused to move axially of the handle toward the free end thereof so as to exert a tension on the yoke and thereby cause the guard, blade and cap to flex longitudinally and assume the shape and position shown in Figure 2.

45 It will be apparent that a razor of this character can be readily and easily cleaned and is

therefore sanitary, and can be used to advantage by both men and women; and in actual practice the teeth 8 are made longer than usual to insure against clogging while the provision of the teeth 8 and guard 9 adds to the safety of the razor as such will prevent cutting or nicking when the razor is used with ordinary care.

Having thus described my invention, what I claim as new is:

10 1. A safety razor comprising a cap, a guard, a handle and interengaging means on the cap and handle for securing the cap and guard on one end of the handle with a blade clamped therebetween, said cap and guard being of flexible material, a threaded stem working in the handle and provided with a transverse opening, and said handle being provided with longitudinal slots, a flexible yoke member extending through the opening into the stem and the slots in the handle and having leg portions provided at their ends to engage the end portions of the guard and cap, and a knob threaded on one end of the stem and in abutting engagement with the adjacent end of the handle for causing the stem to move axially of the handle upon rotation of the knob to thereby tension the yoke and secure the cap, guard and blade in longitudinally curved condition.

20 2. A safety razor comprising a cap, a guard, a handle and interengaging means on the cap and handle for securing the cap and guard on one end of the handle with a blade clamped therebetween, said cap and guard being of flexible material, a threaded stem working in the handle and provided with a transverse opening, and said handle being provided with longitudinal slots, a flexible yoke member extending through the opening into

the stem and the slots in the handle and having leg portions provided at their ends to engage the end portions of the guard and cap, and a knob threaded on one end of the stem and in abutting engagement with the adjacent end of the handle for causing the stem to move axially of the handle upon rotation of the knob to thereby tension the yoke and secure the cap, guard and blade in longitudinally curved condition, said handle having an internal portion provided with screw threads for screw threaded engagement with the stem to retain the latter within the handle when the yoke is not in use.

3. A razor comprising flexible guard and cap members, a handle, interengaging means on the cap and handle for securing the cap, guard and a blade clamped therebetween in position on one end of the handle, said handle being hollow, a stem working in the handle, means engaged with the stem for adjusting the same axially of the handle, and a member engaged with the stem and the opposite end portions of the guard and cap for flexing the latter in the direction of their longitudinal median and to hold the guard, cap and blade in longitudinally curved condition.

4. A safety razor for use either as a flat razor or as a longitudinally curved razor, optionally, and comprising a handle, flexible guard and cap members, means for securing the guard and cap members on one end of the handle with a blade clamped therebetween, a member axially adjustable relative to the handle, and means engageable with said member and the ends of the guard and cap members for flexing the same upon adjustment of said member and for securing the guard and cap members at the desired curvature.

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