No. 740,555. PATENTED OCT. 6, 1903.

J. GUINAN.

SAFETY RAZOR.

APPLICATION FILED APR. 20, 1903.

NO MODEL.

FIG. 1.

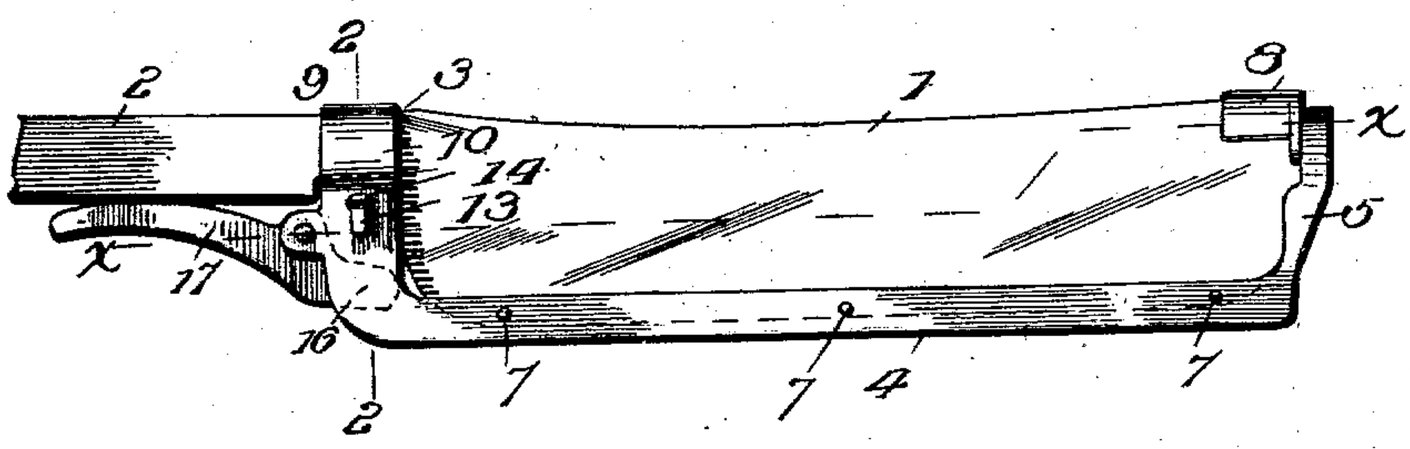


FIG. 2.

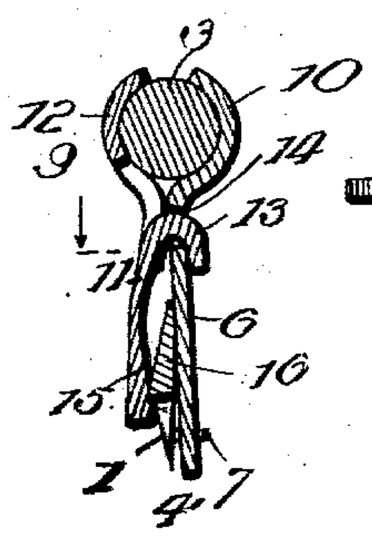


FIG. 3.

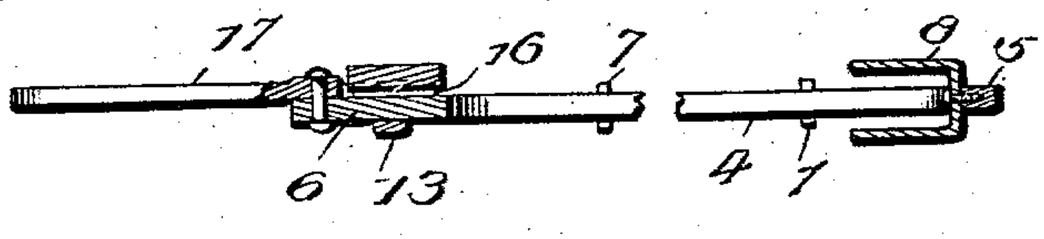


FIG. 4.

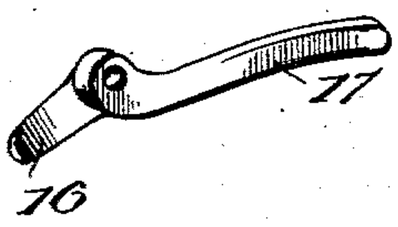
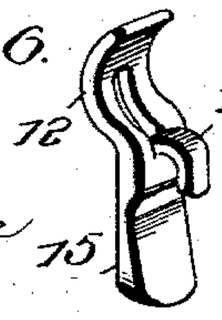


FIG. 5.

FIG. 6.



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No. 740,555. Patented October 6, 1903.

UNITED STATES PATENT OFFICE.

JOHN GUINAN, OF JAMAICA, NEW YORK.

SAFETY-RAZOR.

SPECIFICATION forming part of Letters Patent No. 740,555, dated October 6, 1903.

Application filed April 20, 1903. Serial No. 153,506. (No model.)

To all whom it may concern:

Be it known that I, JOHN GUINAN, a citizen of the United States, residing at Jamaica, in the county of Queens and State of New York, have invented certain new and useful Improvements in Safety-Razors, of which the following is a specification.

The razor-blade and safety-guard attachment involve novel features and are specially adapted to each other, the purpose being simplicity, economy and lightness of structure, ease with which the guard may be removed for cleaning, and the despatch and convenience with which it may be placed in position.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and drawings hereto attached.

While the essential and characteristic features of the invention are susceptible of modification, still the preferred embodiment of the invention is illustrated in the accompanying drawings, in which—

Figure 1 is a side view of a razor and safety-guard attachment embodying the essential features of the invention. Fig. 2 is a transverse section on the line 2 2 of Fig. 1. Fig. 3 is a longitudinal section of the safety-guard about on the line X X of Fig. 1. Fig. 4 is a detail perspective view of the lock-lever. Fig. 5 is a detail perspective view of the safety-guard. Fig. 6 is a detail perspective view of the pivoted clamp member.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The razor-blade 1 and shank 2 may be of any design. The shank, adjacent to the blade, is provided with a rounded portion 3, upon which the clamp of guard 4 is adapted to turn when swinging the guard from one side of the razor-blade to the other.

Guard 4 is provided at its ends with arms 5 and 6 and is supplied at opposite sides with projections 7 for engagement with the razor-blade to properly space the guard therefrom. These projections 7 may be pins fitted into openings of the guard or parts pressed therefrom. Clip 8 is pivotally connected to the outer arm of guard 4, and clamp 9 is applied to the inner arm and receives rounded portion 3 of shank 2. The upper end of arm 6 is outwardly curved to form jaw 10, and said parts 6 and 10 constitute a clamp member rigid with guard 4. The movable or pivoted clamp member 11 is provided with jaw 12, curved in an opposite direction to jaw 10 and coöperating therewith to embrace and grip part 3. The connecting means between the clamp members consist of tongue 13, pressed or struck from member 11 and passed through opening 14 of arm 6 and bent against the outer side of said arm to hold clamp member 11 in place, as shown most clearly in Fig. 2. Clamp member 11 is provided upon its inner side with cam portion 15 for coöperation with wedge 16, whereby the lower end of the clamp members are pressed apart and jaws 10 and 12 caused to advance, so as to grip part 3 with sufficient friction to prevent slipping of the guard, whereby same is held in either one of its two operative positions.

Wedge 16 is located at the inner end of lock-lever 17, pivoted to the fixed clamp member or arm 6. The lock-lever 17 occupies a position beneath the shank 2 of the razor-blade and in the rear of the latter and is adapted to fit close against said shank, so as not to be in the way or interfere with convenient use of the razor. When the outer end of lock-lever 17 is moved away from shank 2, wedge 16 is moved inward, thereby releasing the clamp and permitting same to be turned from one side to the other of the blade or the attachment either to be fitted upon the blade or removed therefrom by an endwise sliding movement. When the parts are properly assembled and the guard is turned to lie against a side of the razor-blade, it is made secure by pressing inward upon lock-lever 17, thereby moving wedge 16 outward and spreading the outer ends of the clamp members, whereby jaws 10 and 12 are caused to firmly and securely grip opposite sides of part 3 of shank 2.

Clip 8 is of a shape to embrace the outer end portion of the razor-back and is slipped thereon by a longitudinal movement. When the guard lies against a side of the razor-blade, the clamp or the part thereof below shank 2 comes in the rear of the blade, thereby

preventing outward displacement of the guard when pressing upon lock-lever 17 to secure the attachment.

Having thus described the invention, what is claimed as new is—

1. In combination, a razor-blade, a safety-guard attachment, a clip having pivotal connection with the outer end of the guard and adapted to be fitted to the outer end of the razor-back, and a clamp at the inner end of said guard for gripping the shank of the razor-blade to hold said guard in either one of its two positions, substantially as set forth.

2. In combination, a razor having a portion of its shank made rounding, a safety-guard attachment, a clip at the outer end of the guard to be fitted to the outer end of the razor-back, and a clamp at the inner end of said guard and adapted to grip the rounded portion of the razor-shank to hold the guard in proper position, substantially as specified.

3. A safety-guard attachment for razors provided with a clamp comprising pivotally-connected members, and a lock-lever pivoted to one of said members and provided with a wedge portion to effect a spreading of the clamp members at one end and a closing of said members at the opposite end to secure the guard in proper position, substantially as set forth.

4. In a safety-guard attachment for razors, a clamp comprising pivotally-connected members, a cam forming a side of the space between said clamp members, and a lock-lever pivoted to a clamp member and adapted to coöperate with said cam to effect a spreading of the clamp members at one end and a closing thereof at the opposite end to grip a portion of the razor and secure the guard in proper position, substantially as set forth.

5. In a safety-guard attachment for razors, a clamp comprising companion members, one of said members having an opening and the other member having a tongue pressed therefrom to pass through the opening of the first-mentioned member and bent to secure said members, and means coöperating with the clamp members to cause them to grip the razor and hold the guard in place, substantially as set forth.

6. In a safety-guard attachment for razors, a clamp comprising pivotally-connected members, one of said members having a cam portion upon its inner side, and a lock-wedge pivoted to a member of the clamp and adapted to coöperate with the cam portion of the clamp to secure the guard in proper position, substantially as set forth.

7. The herein-described safety-guard attachment for razors, comprising a guard having arms at opposite ends, one of said arms terminating in a jaw, a companion clamp member pivoted to the arm of the guard provided with the jaw, a lock-lever pivoted to the rigid clamp member and provided with a wedge to operate between the clamp members to effect a gripping action thereof, and a clip pivoted to the outer arm of the guard, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN GUINAN. [L. S.]

Witnesses:
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GEORGE G. WATT.