H. J. GAISMAN.

SAFETY RAZOR.

CATION FILED APR. 7, 1909.

1,155,347. Patented Oct. 5, 1915.

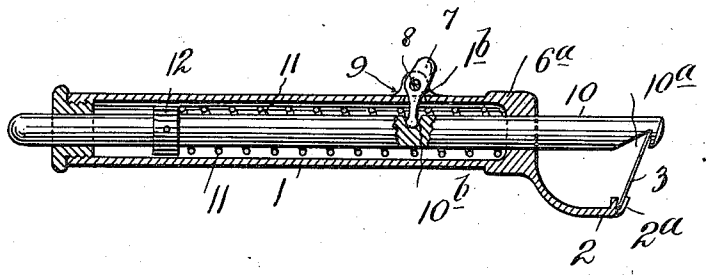


fig. 1.

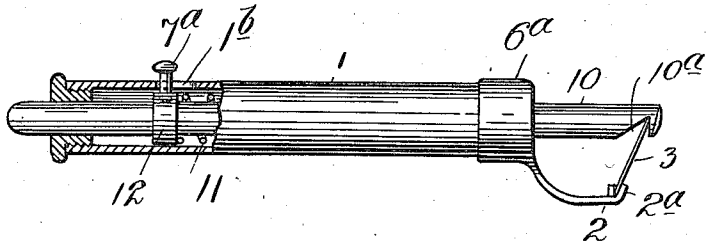


fig. 2.

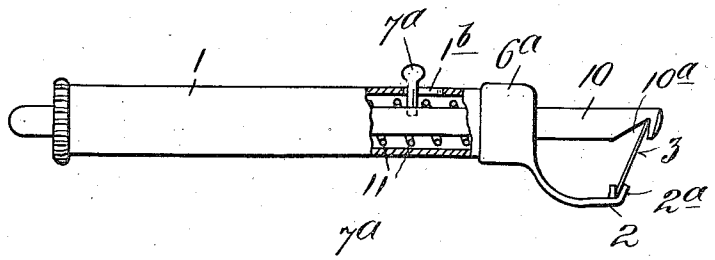


fig. 3.

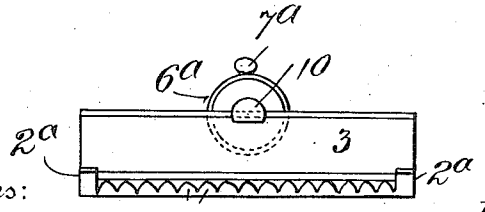


fig. 4.

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UNITED STATES PATENT OFFICE.

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SAFETY-RAZOR.

1,155,347. Specification of Letters Patent. Patented Oct. 5, 1915.

Application filed April 7, 1909. Serial No. 488,507.

To all whom it may concern:

Be it known that I, HENRY J. GAISMAN, a citizen of the United States, and resident of New York city, borough of Manhattan, in the county of New York and State of New York, have invented certain new and useful Improvements in Safety-Razors, of which the following is a specification.

This invention relates to improvements in the class of safety razors wherein a movable jaw is adapted to engage a blade to hold it in shaving position with respect to a guard, and the object of the invention is to provide improved means for operating the movable jaw in a convenient manner.

In the example of my invention herein set forth I provide a handle, a guard, blade retaining hooks or lugs, a rod or sliding member movable relatively to the guard and provided with a jaw to engage the blade at the edge opposite the guard, and means projecting from the side of the handle and coacting with the sliding member or rod to permit convenient manipulation of the latter while the handle is being held.

My invention also comprises the novel details of improvement and combinations of parts that will be more fully hereinafter set forth and then pointed out in the claims.

Reference is to be had to the accompanying drawings forming part hereof, wherein,

Figure 1 is a longitudinal section of a safety razor embodying my invention; Fig. 2 is a side elevation, partly in section, of a modification; Fig. 3 is a side elevation partly in section of a slightly different arrangement of Fig. 2, and Fig. 4 is a plan view of the razor.

Similar numerals of reference indicate corresponding parts in the several views.

In the drawings the numeral 1 indicates a suitable handle carrying a guard 2 for the edge of blade 3, which blade may have one or more cutting edges. At 2^a are hooks or lugs shown connected with guard 2, which hooks or lugs 2^a engage and hold the blade in shaving position upon the guard. At 10 is a sliding member or rod shown guided to slide longitudinally or in the direction of the axis of handle 1, and said sliding member or rod at its outer or upper end is provided with a jaw, notch or recess 10^a adapted to engage the edge of the blade opposite the guard.

Within handle 1 is a spring 11, shown bearing at one end against a stop or collar 12 on rod 10 and at the other end against the head portion 6^a of the handle, the tendency of said spring being to cause rod 10 to hold the blade in position between jaws or notch 10^a and hooks or lugs 2^a. In Fig. 1 a lever 7 is pivotally supported upon handle 1, as by pivot 8 passing through suitable lugs 9 on the handle, said lever passing through a suitable opening 1^b in handle 1 and entering a recess 10^b in rod 10, the outer end of lever 7 being in position to be operated by the thumb or finger of the user. The lever 7 by entering notch 10^b prevents rod 10 from rotating and thus maintains jaw or notch 10^a in proper position for coaction with blade 3. With the arrangements shown, when it is desired to insert the blade, it is merely necessary, holding the device in one hand, to then operate lever 7 with the thumb or finger, whereby rod 10 will be pushed outwardly against the tension of its spring and may be so held while blade 3 is placed in position, and then when lever 7 is pushed reversely or released rod 10 will move inwardly to cause its jaw or notch 10^a to engage the blade edge and hold the blade in proper shaving position. To release the blade lever 7 may be similarly operated to push out rod 10 when the blade may be removed by the other hand or allowed to drop out.

In Fig. 2 instead of pivoting a lever 7 upon handle 1, I have shown rod 10 provided with a projection 7^a passing through opening or slot 1^b, in handle 1, which projection is shown attached to collar 12. Projection 7^a prevents rotation of rod 10 for the purpose before described. By pushing on projection 7^a rod 10 will be moved outwardly and then the blade may be removed or a blade placed in position to be engaged by jaw or notch 10^a. The projection 7^a in Fig. 2 is shown located near the lower end of handle 1, while in Fig. 3 projection 7^a is shown connected directly to rod 10 near the upper end of the handle and passes through opening 1^b in handle 1, the same operation and effect being accomplished as described with respect to Figs. 1 and 2. In Figs. 2 and 3 the projection 7^a limits the inward movement of rod 10 by engaging the metal at the end of opening or slot 1^b.

It will be observed that the hooks or lugs 2^a and rod 10 with its jaw or notch 10^a

constitute clamping jaws movable relatively to, or toward and away from, each other for clamping the blade in shaving position.

My improvements provide convenient means for operating rod 10 while the handle is held in one hand, whereby a thumb or finger of such hand can be used on the lever or projection for such purpose, leaving the other hand free to insert or remove the blade.

Changes may be made in the details of construction and arrangements set forth within the scope of the appended claims without departing from the spirit of the invention.

Having now described my invention what I claim is:—

1. In a safety razor, a blade provided with one or more cutting edges, a blade holder comprising a guard for the cutting edge, means for receiving the opposite edges of the blade comprising jaws movable toward and away from each other, a handle upon the blade holder, means extending longitudinally therethrough for controlling the movement of the jaws, and means extending outwardly from the side of the handle between its ends at an angle to the axis of the latter, for manually operating the longitudinally extending means, whereby holding the device in one hand the longitudinally extending means may be operated to grip or release the blade.

2. In a razor, a guard, means adjacent the guard for engaging the blade, a handle, a rod engaging the blade and slidably carried in the handle, and means coöperative with the rod and projecting from the side of the handle between its ends in position to be operated to grip or release the blade while the handle is held in one hand.

3. In a razor, a guard, means adjacent the guard for engaging the blade, a handle, a rod engaging the blade and slidably carried in the handle, means coöperative with the rod and projecting from the side of the handle between its ends in position to be operated to grip or release the blade while the handle is held in one hand, and a spring acting on said rod to hold it in engagement with the blade.

4. In a razor, a handle, a guard, means adjacent the guard to engage a blade, a rod mounted to slide longitudinally through the handle and provided with means to engage the blade, to hold it adjacent the guard, and a lever pivotally carried by the handle between its ends and engaging said rod.

5. In a razor, a handle, a guard, means adjacent the guard to engage a blade, a rod mounted to slide longitudinally through the handle and provided with means to engage a blade, to hold it adjacent the guard, a lever pivotally carried by the handle between the ends of the latter and engaging said rod, and a spring acting with the rod to hold it in engagement with the blade.

6. In a razor, a handle, a guard, means adjacent the guard to engage a blade, a rod mounted to slide longitudinally through the handle between its ends and provided with means to engage the blade, and a lever pivotally carried by the handle and having one end projecting into the handle into coaction with a notch in the rod and its opposite end projecting outwardly from the side of the handle in position to be manipulated to cause the rod to grip or release the blade.

7. In a razor, a handle, a guard, means adjacent the guard to engage a blade, a rod mounted to slide longitudinally through the handle and provided with means to engage the blade, a lever pivotally carried by the handle between its ends and having one end projecting into the handle into coaction with a notch in the rod and its opposite end projecting outwardly from the side of the handle in position to be manipulated to cause the rod to grip or release the blade, and a spring acting with the rod to hold its jaw in engagement with the blade.

Signed at New York city, in the county of New York, and State of New York, this 6th day of April, A. D. 1909.

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Witnesses:

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