H. J. GAISMAN.

SAFETY RAZOR.

APPLICATION FILED JUNE 22, 1909.

1,139,115. Patented May 11, 1915.

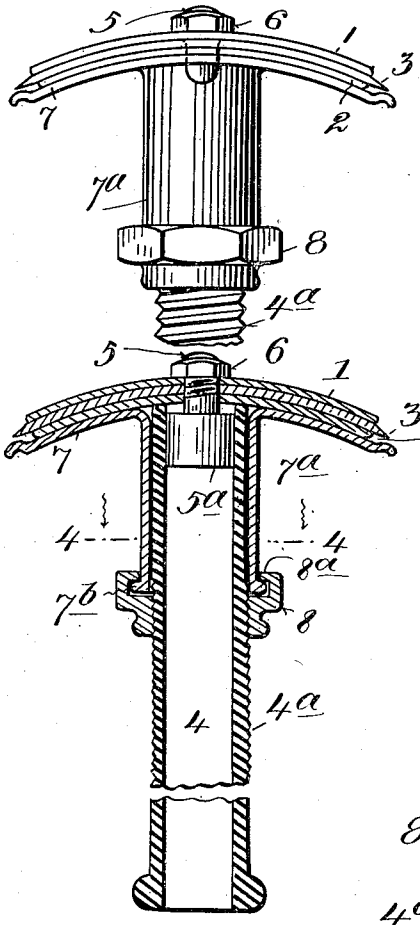


fig. 1.

fig. 2.

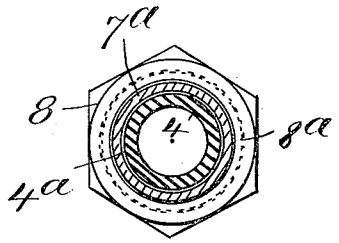


fig. 4

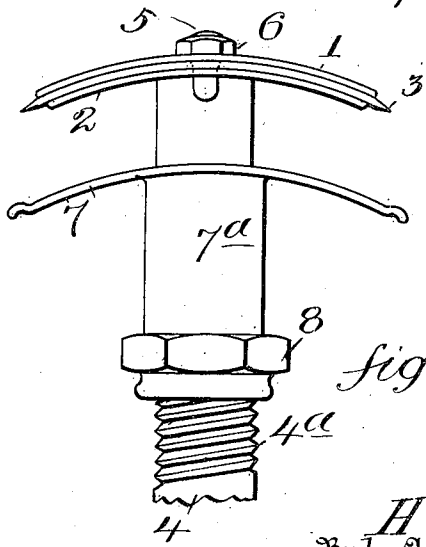


fig. 3

Witnesses:
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UNITED STATES PATENT OFFICE.

HENRY J. GAISMAN, OF NEW YORK, N. Y., ASSIGNOR TO AUTO STROP COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

SAFETY-RAZOR.

1,139,115. Specification of Letters Patent. Patented May 11, 1915.

Application filed June 22, 1909. Serial No. 503,642.

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.

The object of my invention is to provide a safety razor wherein a flexible or relatively thin blade may be held or maintained in a curved condition for stiffening it at its edge or edges, and whereby the blade and guard may be moved relatively to each other to separate them for the purpose of cleaning the parts without requiring the blade to be removed from its holder for such purpose.

In carrying out my invention I provide a blade holder having opposed curved blade clamping plates, a handle therefor, means to firmly clamp the blade in curved condition between said plates, a guard for the blade edge or edges movable relatively thereto, and means for holding the guard in shaving position with respect to the blade edge or edges, and whereby the guard may be separated from the blade to enable the parts to be readily cleaned, while the blade remains secured between the clamping plates.

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 side view of a safety razor embodying my improvements, part of the handle being removed; Fig. 2 is a vertical section thereof; Fig. 3 is a side elevation showing the parts separated for cleaning, and Fig. 4 is a section on the line 4, 4, in Fig. 2.

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

The numerals 1, 2 indicate upper and lower or inner and outer blade clamping plates, which are shown in curved form to clamp between them the relatively thin or flexible blade 3 to stiffen and hold the latter, the lower or inner plate 2 being provided with a handle 4. While any suitable means may be provided for detachably clamping the upper or outer plate 1 on blade 3 I have shown a threaded post 5 secured to and projecting from handle 4 and passing through alined holes in plates 1, 2, and in blade 3, a nut 6 on the post serving to clamp said parts securely together. Post 5 is shown provided with a head 5^a located within and secured to handle 4. At 7 is a guard plate mounted to move along handle 4 independently of the blade and its clamping plates and with respect thereto, the guard plate having guard teeth at its edges arranged in any well known manner. Plate 7 is shown provided with a sleeve or tubular projection 7^a receiving and adapted to slide along handle 4, and means are connected with the handle for adjusting said sleeve and plate along the handle and holding them in set position. For this purpose I have shown handle 4 provided with threads 4^a receiving a nut 8, which nut has rotative connection with sleeve 7^a, as by one or more projections 7^b on said sleeve receiving the inwardly turned flange 8^a of nut 8, whereby as said nut is rotated the guard plate 7 will be caused to move up or down along handle 4. Plate 7 is shown curved and adapted to abut against the under curved surface of plate 2, whereby the guard or guards will be held in proper position with respect to the blade edge.

According to my improvements a flexible blade 3 may be clamped between plates 1, 2 and maintained in curved condition for use, the guard being pushed up in shaving position and held by nut 8. When the razor is to be cleaned the guard plate is lowered or moved away from plate 2 by rotating nut 8 thereby exposing the edges of the blade, the guard, and the plates 1, 2 in position to be readily cleaned, as illustrated in Fig. 3, thereby overcoming the necessity of removing the blade from its holder for cleaning the parts of the razor. I have shown blade 3 as provided with two opposed cutting edges, and guard plate 7 having corresponding guard teeth, but the blade may have one or more cutting edges as desired, the guard being correspondingly arranged.

The details of construction and arrangements of parts shown and described may be varied, within the scope of the appended claims, without departing from the spirit of my invention.

Having now described my invention what I claim is:—

1. A safety razor comprising a blade holder arranged to hold a normally flat blade flexed in curved condition, a guard for the blade edge separate from the blade holder, and means for holding the guard in graduated positions for purposes of shaving.

2. A safety razor comprising a blade holder having opposed curved plates, means for clamping a normally flat blade flexed in curved condition between said plates, a guard separate from the blade holder, and means for holding said guard in graduated positions for purposes of shaving.

3. A safety razor comprising a blade holder having a pair of opposed curved plates, a normally flat double-edged blade between said plates, a handle connected with one of the plates, means for clamping said blade flexed in curved condition between said plates, an adjustable double-guard separate from said plates, and means for holding said guard in graduated positions for purposes of shaving.

4. A safety razor comprising a holder having a pair of opposed curved plates, a handle, means for clamping a normally flat blade flexed in curved condition between said plates, a guard provided with a sleeve mounted upon said handle, and means for holding said guard in graduated positions for purposes of shaving.

5. A safety razor comprising a holder having a pair of opposed plates, a handle, means for rigidly clamping a normally flat blade flexed between said plates, a guard provided with a sleeve mounted upon said handle, said handle having threads, and a nut engaging said threads and having rotative engagement with said sleeve.

6. A safety razor comprising a blade holder having a pair of opposed curved plates, a handle projecting from one plate, means to clamp a blade in curved position between said plates, a curved guard plate to fit the inner blade clamping plate and separate therefrom, and means to hold said guard plate in graduated positions for purposes of shaving.

7. A safety razor comprising a holder having a pair of opposed curved blade clamping plates adapted to hold a normally flat blade flexed between said plates, one of said plates having a handle, a threaded post extending from said handle through openings in said plates for detachably retaining said plates and clamping said blade between said plates, a guard plate separate from the first named plates and mounted to slide along the handle, and means for holding said guard plate in graduated positions for purposes of shaving.

8. A safety razor having a pair of blade-clamping plates, a handle carrying said plates, a guard for the blade edge, a sleeve on the guard receiving the handle, and means rotative on the handle and coacting with said sleeve for holding said guard in graduated positions for purposes of shaving.

9. In a safety razor, a handle, a blade, means for holding the blade on the end of the handle immovable with respect thereto, a guard mounted on the handle and movable toward and from said blade and blade holding means, a depending sleeve carried by said guard, an interiorly threaded collar mounted on said handle, and means operatively connecting the sleeve, collar, and handle, whereby upon rotation of said collar with respect to said handle, the guard will be adjusted toward or from the blade to give a coarse or fine shave.

Signed at New York city, in the county of New York, and State of New York, this 18th day of June, A. D. 1909.

HENRY J. GAISMAN.

Witnesses:
EDNA E. WARD,
MAX DAVIS.