H. J. GAISMAN.

SAFETY RAZOR.

APPLICATION FILED JUNE 16, 1910.

1,163,136. Patented Dec. 7, 1915.

Fig. 1.

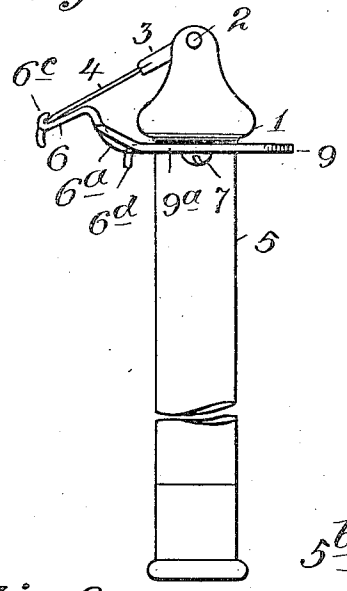


Fig. 3.

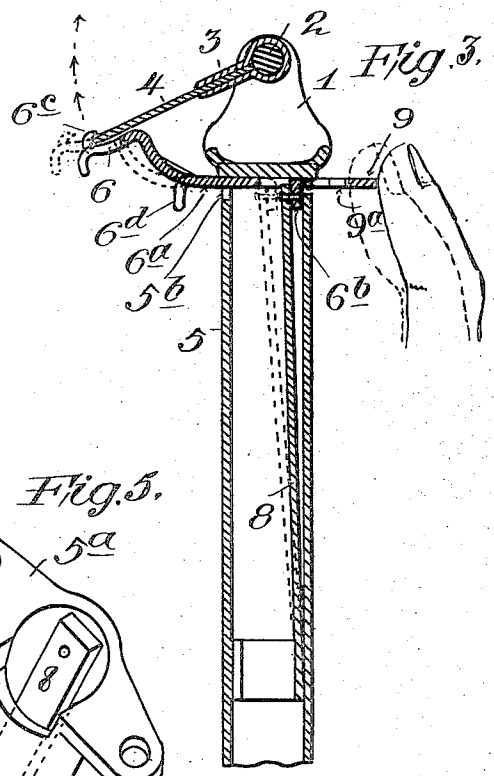


Fig. 5.

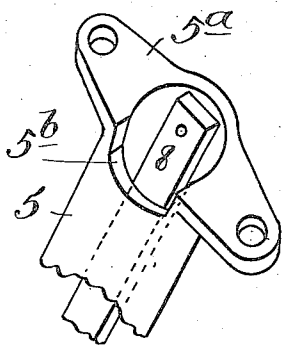


Fig. 2.

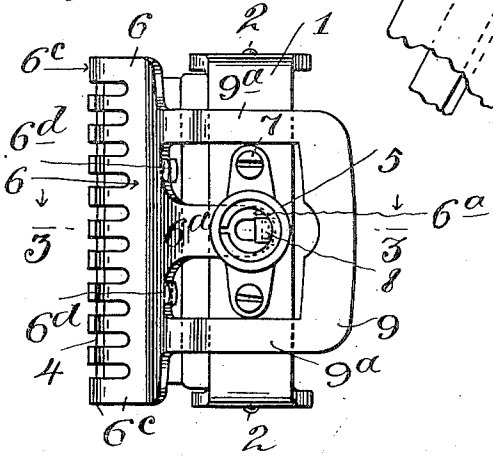


Fig. 4.

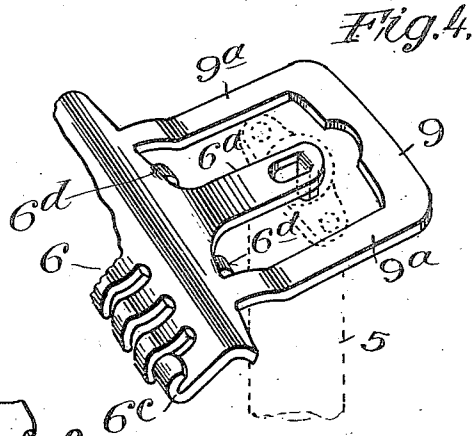
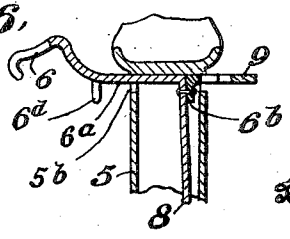


Fig. 6.



Witnesses:
W. J. Benjamin
Mary F. Wainright

Inventor
H. J. Gaisman.
By J. F. Bourne Attorney

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.

1,163,136. Specification of Letters Patent. Patented Dec. 7, 1915.

Application filed June 16, 1910. Serial No. 567,206.

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 improved means for supporting the blade holding member in a safety razor to enable the blade to be held in proper position for shaving, and to be removed for cleaning, removal and replacement.

My invention comprises 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 razor embodying my invention; Fig. 2 is an underside view thereof; Fig. 3 is a section on the line 3, 3 in Fig. 2; Figs. 4 and 5 are detail perspective views of parts of the razor, and Fig. 6 is a sectional detail of a modification.

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

The numeral 1 indicates a suitable frame shown provided with end uprights spaced apart carrying the shaft 2, the latter having a suitable blade holder 3 for detachably holding blade 4.

At 5 is a handle projecting from the frame 1 at an angle to the plane of the blade, and at 6 is a guard for the blade edge. The handle may be secured to frame 1, as by lugs 5^a receiving screws 7, and within said handle is a spring 8 extending upwardly adjacent the base of frame 1, and to said spring is secured a projection 6^a from the guard. Said projection is shown passing through an opening 5^b in the handle, whereby said projection may play freely therein. The projection 6^a is shown provided with a depending portion 6^b riveted to spring 8, although said spring and projection can be otherwise secured together, or made in a single piece of material if desired, as illustrated in Fig. 6. Guard 6 is shown provided with blade stops or hooks 6^c adapted to engage the edge of the blade to hold the latter in proper position upon the guard. Said guard is also shown provided with an operating member 9 extending rearwardly of the frame in position to be pushed by the thumb or finger of the user, which projection is shown connected with the guard by side arms 9^a, 9^a, being shown substantially in yoke form, the arms 9^a being shown located on opposite sides of handle 5, but independent thereof, the guard and parts thereof being shown made in a single piece of material and supported by spring 8. The guard may have one or more finger pieces 6^d whereby the guard may be operated.

The normal tendency of spring 8 is to draw the guard and its stops 6^c in the direction of the frame. When the guard is pushed outwardly the blade may be swung down upon the guard, which thereby serves as a blade seat, and when the guard is released spring 8 will move the guard toward the blade edge and cause stops 6^c to engage the blade to hold the parts in shaving position. When the guard is next moved outwardly the blade will be released and may be swung upwardly for cleaning or for stropping, or to remove and replace the blade.

The construction is simple and efficient in use, the guard and spring are maintained in proper relative position, and the razor is not liable to get out of order.

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

Having now described my invention what I claim is:—

1. A safety razor comprising a frame, a handle connected to the frame, a blade, means attached to the frame for holding the blade, a spring in the handle, means for oscillatably supporting the said spring, and a guard attached to and carried by the spring and engaging the blade.

2. A safety razor comprising a frame having a handle, a blade, means for attaching the blade to the frame, a guard having parallel arms spaced apart to receive the handle, a spring oscillatably mounted in the handle, a projecting member on the guard to which the spring is connected, the said spring forming a support for the guard whereby the said guard may be supported to move on a plane at an angle to the spring for engaging the blade.

3. A safety razor provided with a frame, a handle projecting therefrom, a spring within the handle, a guard provided with stops to engage and hold a blade, said guard having a projectiton secured to said spring and supported thereby, and a projection extending along the handle at the side opposite the guard for operating the latter, said projection comprising members at opposite sides of the handle and a cross piece connecting said members.

Signed at New York city, in the county of New York, and State of New York, this 14th day of June, A. D. 1910.

HENRY J. GAISMAN.

Witnesses:

MOSES H. ROTHMAN,

P. A. HAHN.