W. SCHMIDT.

HOLDER OR FRAME FOR SAFETY RAZORS.

APPLICATION FILED AUG. 23, 1907.

962,531. Patented June 28, 1910.

Fig. 1.

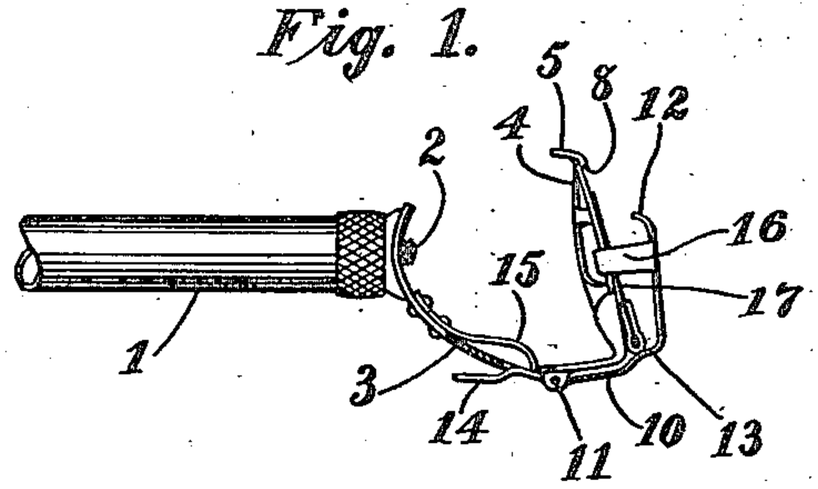


Fig. 2.

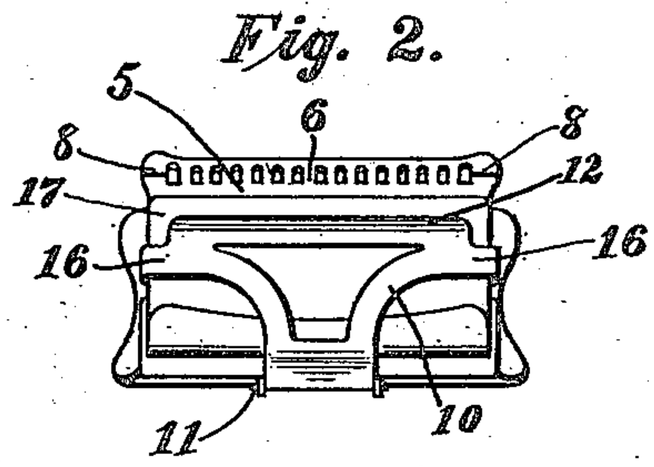


Fig. 3.

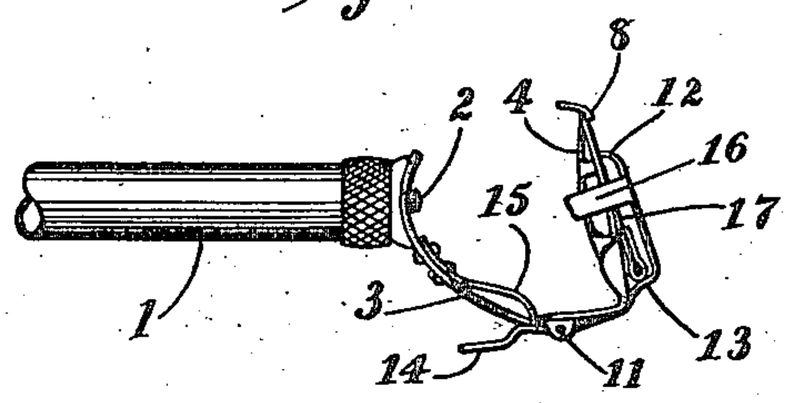


Fig. 4.

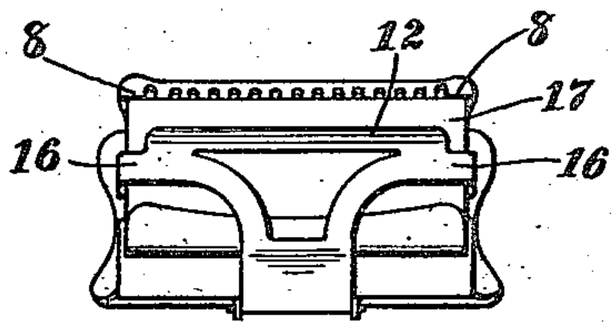


Fig. 5.

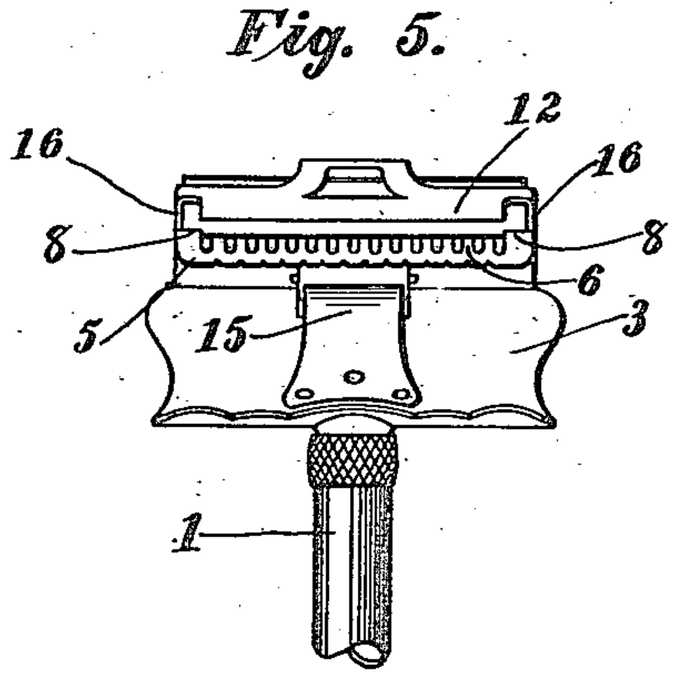
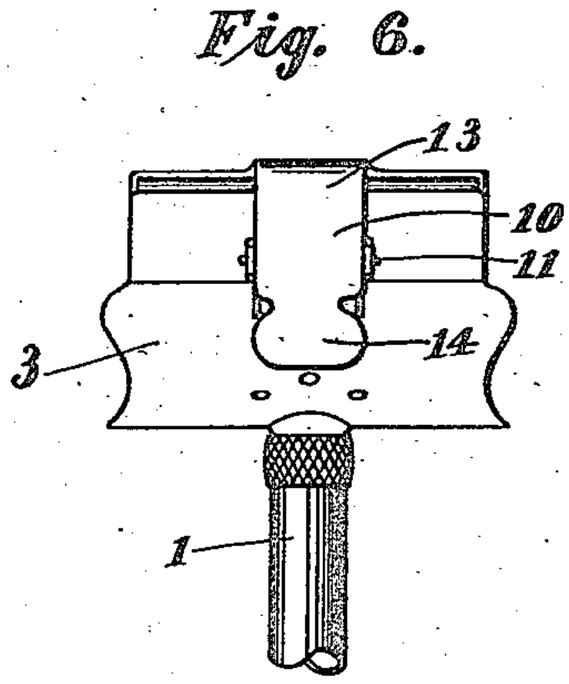


Fig. 6.



Witnesses:

Chas. W. La Rue

Charles A. Scheuber.

Inventor:

William Schmidt

by Dunn Gunn & Clarke

Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM SCHMIDT, OF JERSEY CITY, NEW JERSEY, ASSIGNOR TO MARY ZINN, MARTIN ZINN, AND ARTHUR ZINN, COMPOSING THE FIRM OF SIMON ZINN, OF NEW YORK, N. Y.

HOLDER OR FRAME FOR SAFETY-RAZORS.

962,531. Specification of Letters Patent. Patented June 28, 1910.

Application filed August 23, 1907. Serial No. 389,794.

To all whom it may concern:

Be it known that I, WILLIAM SCHMIDT, a citizen of the United States, residing in Jersey City, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Holders or Frames for Safety-Razors, of which the following is a full, clear, and exact specification.

My invention relates to certain new and useful improvements in holders or frames for safety razors.

One of the important requisites, for a satisfactory frame, is that the blade, either new or worn, must be easily insertible in the same and adjustable to its proper cutting position, and it is the object of my invention to provide a holder having these advantageous qualities, and one which will be inexpensive in construction, as well as durable and efficient in service, and readily accessible for cleansing.

In the drawings illustrating one form of my invention, Figure 1 is a side elevation of the razor with a blade inserted and the clamping member raised. Fig. 2 is a top view of the holder with the parts in the same relative position. Fig. 3 is a side elevation of the holder with the blade clamped in place. Fig. 4 is a similar top view. Fig. 5 is a front elevation of the razor. Fig. 6 is a rear elevation of the razor.

Like reference numerals indicate corresponding parts in the different figures of the drawing.

The numeral 1 indicates the handle, to which is secured by any suitable means, such as a screw 2, the basket or frame 3, provided with a blade support 4. Integral with the blade support there is provided a suitable guard 5, the teeth 6 of which are connected at their outer ends. At the ends of the guard, lugs or stops 8 are located to limit the forward movement of the blade, and thus to bring the cutting edge in proper alinement with the guard teeth. The clamping member 10 is pivoted at 11 to the back of the casing or frame and projects over the top of the blade support, forming therewith a receptacle or clamp within which the blade is secured. The extension 12 of this clamping member projects downwardly and is adapted to bear upon the upper face of the blade when in position, and serves to hold it firmly down upon the blade support during the shaving operation. The clamping member 10 is pivoted so as to swing practically at a right angle to the plane of the blade support, and the portion 13 thereof is so shaped as to bear upon the back of the blade, as shown in Fig. 1. A thumb-piece or operating lever 14 is formed upon the clamping member on the other side of the pivot, and a spring 15 normally tends to force the clamping member down upon the blade support, and thus securely hold the blade in place. Side guide bars 16, 16 are also provided at the sides of the clamping member and serve to prevent lateral motion of the blade when in place on the holder.

In the drawings I have shown the blade 17 as a comparatively thin blade provided with a backing, but it is obvious that other types of blades, such, for instance, as a wedge-shaped blade, may be used without departing from the spirit of my invention.

The operation of the device will be readily understood from the foregoing. When it is desired to insert a blade in the holder, the thumb-piece 14 is pressed inwardly, thus raising the clamping member 10, and the blade 17 may be dropped into the space between the clamping member and the blade support, as shown in Fig. 1. Upon releasing the thumb-piece, however, the spring 15 forces the latter downward, and thus the extension 12 of the clamping member firmly down upon the upper face of the blade, and the portion 13, contacting with the back of the blade, forces the blade forward until the ends of the cutting edge abut against the stops 8, when the blade will be held firmly against any longitudinal movement. In a similar manner the guide bars 16, 16, provide against lateral movement and the blade is held firmly in place. It will thus be seen that a mere insertion of the blade and a release of the thumb-piece is all that is necessary in the operation of the device, as the blade is automatically pushed forward to its cutting position and held there firmly until removed for cleansing.

It will be understood that many changes and modifications may be made in my invention without departing from the spirit thereof, and I do not mean to limit myself to the exact construction shown and described, but

What I claim and desire to secure by Letters Patent is:

1. A safety razor comprising a casing, a blade-support therein, a guard adjacent to said blade-support, a blade, stop-lugs adjacent to said guard against which the edge of the blade is adapted to contact, a spring-pressed clamp adapted to engage the rear of the blade to force same against the stop-lugs and having an extension integral therewith and adapted to press upon the upper face of the blade and hold the same upon the blade-support, side-bars depending from said clamp adapted to embrace the ends of the razor and hold same against endwise displacement, and an operating lever attached to said clamp and located upon the casing, substantially as described.

2. A safety razor comprising a casing, a blade-support therein, a guard upon said blade-support, stop-lugs on said guard, a blade, a clamp pivotally secured to the rear of said casing, a thumb-piece attached to said clamp and depending below the pivot, a spring secured to said casing and normally engaging said thumb-piece to press the same rearwardly, a portion of said clamp being in position to engage the back of the blade and force the same forward upon the lugs, and a portion of said clamp being bent over in position to engage the top of the blade and hold the same upon the support and side-bars depending from said clamp in position to engage the ends of the razor and prevent endwise displacement, substantially as described.

3. A safety razor comprising a casing, a blade-support therein, a guard adjacent to said blade-support, a blade, stop-lugs adjacent to said guard against which the edge of the blade is adapted to contact, and a clamp having integral members adapted to pass respectively upon the back of the blade and the top of the blade and the sides of the blade to hold the blade against endwise movement, a pivotal connection between said clamp and the casing, a spring connection between said clamp and the casing, and an operating lever attached to said clamp and located upon the casing, substantially as described.

In testimony whereof, I have hereunto set my hand in the presence of two subscribing witnesses.

WILLIAM SCHMIDT.

Witnesses:
ADOLPH F. DINSE,
A. W. SCHENBER.