A. A. WARNER.

SAFETY RAZOR.

APPLICATION FILED JAN. 19, 1916.

1,271,249. Patented July 2, 1918.

Fig. 1.

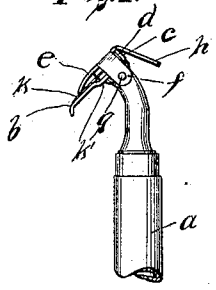


Fig. 2.

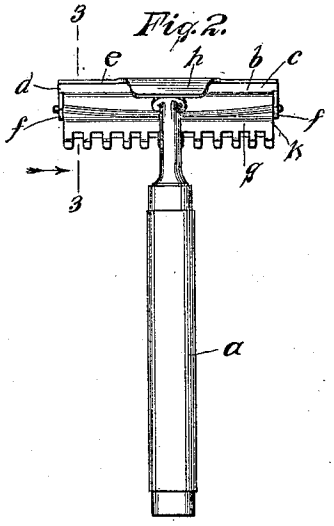


Fig. 5.

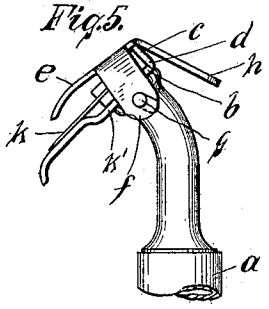


Fig. 3.

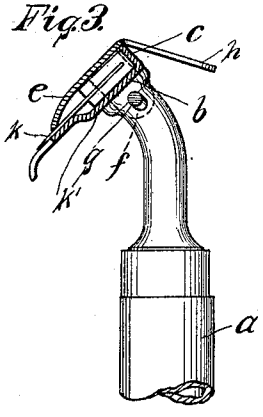
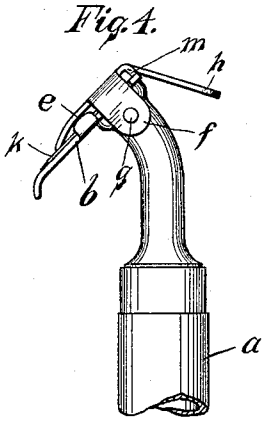


Fig. 4.



WITNESSES:

Louis Lucia.

Anne E. O'Brien

INVENTOR.

Alonzo A. Warner:

BY

His ATTORNEY.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ALONZO A. WARNER, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR TO LANDERS, FRARY & CLARK, OF NEW BRITAIN, CONNECTICUT, A CORPORATION OF CONNECTICUT.

SAFETY-RAZOR.

1,271,249. Specification of Letters Patent. Patented July 2, 1918.

Application filed January 19, 1916. Serial No. 73,044.

To all whom it may concern:

Be it known that I, ALONZO A. WARNER, a citizen of the United States, and a resident of New Britain, county of Hartford, State of Connecticut, have invented certain new and useful Improvements in Safety-Razors, of which the following is a specification.

The object of this invention is to produce an article of the character described having features of novelty and advantage.

In the drawings—

Figure 1 is a side view of a razor embodying my invention.

Fig. 2 is a rear view.

Fig. 3 a section on the line 3—3 of Fig. 2.

Fig. 4 is a side view of a second form.

Fig. 5 is a view, similar to Fig. 1 but showing the clamp raised for the release of the blade.

Referring to the drawings, *a* is the handle secured to the base *b*. In the embodiment of Figs. 1 to 3 and 5 inclusive, the base has a rear upstanding flange *c* projecting at either end to form a stop *d*. *e* is the clamp having at its end near the rear edge depending ears *f*, *f*; a spring *g* passes through an aperture in the handle and has its ends engaged with apertures in the ears *f*, *f*, the aperture in the handle being slightly out of line with the apertures in the ears, in order to place the spring under a slight tension. Projecting from the rear edge of the clamp is a thumb piece *h* preferably bent out of the plane of the clamp. The spring tends to draw the front edge of the clamp plate down onto the blade near the guard. The projections hold the clamp plate against slipping rearwardly on the base. Pressure on the thumb piece causes the clamp plate to fulcrum on the upstanding flange at the rear edge of the base, raising the forward edge of the clamp plate to release the blade. As shown in this instance the blade *k* has a rib at its rear edge fitting a slight depression *k'* in the base. The type of blade used with this holder is not material to the invention.

The embodiment illustrated in Fig. 4 is very similar to that just above described except that the flange instead of upstanding from the base is depending from the rear edge of the clamp plate, as clearly seen at *m*, *m*. These flanges, whether they be upstanding or depending, constitute spacers to raise the rear edge of the clamp away from the base, providing a better gripping action at the front edge.

In the embodiments of the invention selected for illustration and description, the extreme simplicity of the structure, which results from the small number of parts and the simplicity of their construction and assembly, will be immediately apparent. One feature of the invention of particular importance is the peculiar form and arrangement of the spring, seated centrally of its length in an aperture in the upper end of the handle underneath the base, the spring being arranged longitudinally of the base and operatively engaged with the clamp to hold it securely in position. A second and important feature of the invention is to be found in the use of this spring as the connecting means between the clamp and the base. In other words, the spring really performs a dual function; first, of being the connecting means between the clamp and the base, and second, a binding means to grip the blade between the clamp and the base. In connection with this view of the invention it is to be noted that the clamp is not pivotally, or in any other way connected or assembled with the base, but that the spring is relied upon both as a connecting means and as an actuating means for the clamp.

In accordance with the provisions of the patent statutes, I have described the principle of operation of my invention, together with the apparatus which I now consider to represent the best embodiment thereof; but I desire to have it understood that the apparatus shown is only illustrative, and that the invention can be carried out by other means.

I claim:—

1. A holder for safety razor blades, comprising a handle with a base plate fixedly secured to the upper end thereof, a spring arranged under and longitudinally of said base plate, a support in which the central portion of said spring is removably mounted, and a clamp plate operatively positioned above said base plate and engaged by the ends of said spring.

2. In a holder for safety razor blades, a handle, a base plate fixedly secured there-

to, a clamp plate arranged above the base plate, and means for holding said clamp plate in position on said base plate and permitting it to rock relatively thereto, said means comprising a spring arranged under said base plate and supported between its ends which are engaged with said clamp plate.

3. In an article of the character described, a base including a handle, a clamp arranged on the upper surface of said base, a flange at the rear edge of one of said parts cooperating with the other part to form a fulcrum for said clamp, a spring uniting said clamp and base, and means for preventing the rearward movement of said clamp on said base.

4. In an article of the character described, a handle apertured at its upper end, a base mounted at the upper end of said handle, a spring arranged longitudinally of and under said base and supported centrally of its length in the aperture of said handle, a clamp fulcrumed on said base and operatively engaged with the ends of said spring.

ALONZO A. WARNER.

Witnesses:
J. HAROLD JOHNSON,
D. CLARK SMITH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."