

E. F. SCHOELL.
SAFETY RAZOR.
APPLICATION FILED JULY 10, 1911.

1,008,565.

Patented Nov. 14, 1911.

Fig. 2.

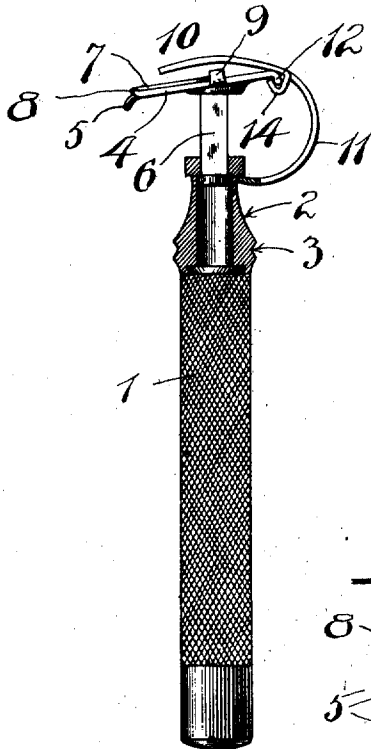


Fig. 1.

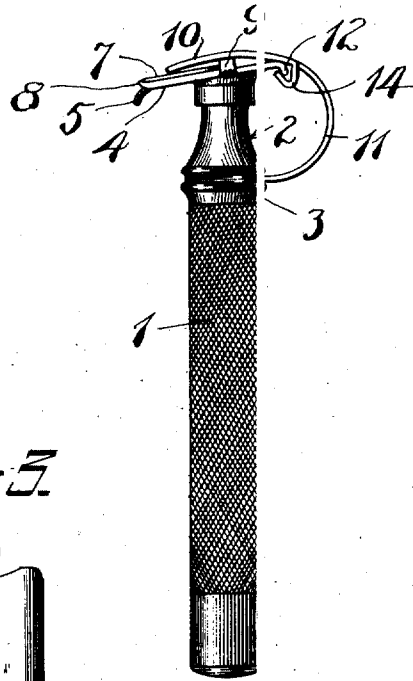


Fig. 3.

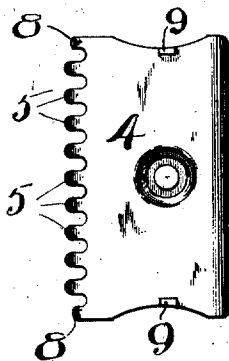


Fig. 4.

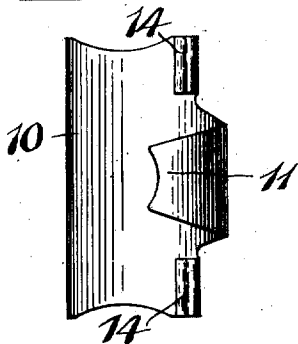


Fig. 5.



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UNITED STATES PATENT OFFICE.

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SAFETY-RAZOR.

1,008,565.

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To all whom it may concern:

Be it known that I, EUGENE F. SCHOELL, a citizen of the United States, residing at New Britain, county of Hartford, State of Connecticut, have invented certain new and useful Improvements in Safety-Razors, of which the following is a full, clear, and exact description.

My invention relates to improved safety razors, the object being to provide an exceedingly simple and at the same time compact and effective construction.

In the drawings, Figure 1 is a side elevation of my improved razor construction assembled ready for use. Fig. 2 is a side elevation partly in section, the blade gripping member being released. Fig. 3 is a plan view of a detail, namely, the blade support and guard. Fig. 4 is a view of the underside of the blade clamp detached. Fig. 5 is a plan view of the blade.

1 represents the handle portion which may be of any suitable design. The outer end of the handle portion is provided with a cam incline 2 at one side.

3 is a notch adjacent to the high part of the cam incline 2 forming a keeper shoulder adjacent thereto.

4 is a plate on which the blade is supported. This blade support 4 is provided with forwardly projecting guard tongues 5—5, which protect the edge of the blade, and otherwise operate in the usual manner.

6 is a stem on the underside of the blade support 4, said stem being mounted at the end of the handle portion 1, and longitudinally movable relatively thereto. The stem 6 is preferably so constructed that it will slide but not turn in said handle.

7 represents a blade. Any suitable means may be provided to position the blade properly upon the support 4. In this particular instance such positioning means comprises the forward end lugs 8—8, and the rear end lugs 9—9, between which lugs the blade is placed in the act of assembling the razor. The means for holding the blade in position comprises the plate 10 having a flexible bowed rear extension 11. The end of said bowed extension is arranged to ride on the incline 2. The plate 10 is suitably connected with the blade support 4 so that it may partake of a swinging or hinge-like movement, said connection being preferably such that said blade holder plate 10 may

be easily removed from said blade support to permit of all the parts to be thoroughly cleaned whenever desired. In this particular instance, the means for connecting the plate 10 with the blade support 4 is constructed as follows:—The rear edge of the blade support 4 is provided with a downwardly turned lip 12, while the rear edge of the plate 10 at each end (as shown in Fig. 4) is provided with an open ended and open sided knuckle 14. By leaving the edge of the knuckles 14—14 open, the plate 10 may be slipped into place or removed by a lateral movement when the parts stand as shown in Fig. 2.

Operation: Starting with the parts as shown in Fig. 2, it will be observed that the blade supporting plate 4 is pushed out from the end of the handle 1, so that its forward edge is lifted somewhat above the blade 7 to permit the latter to be easily removed or inserted. The end of the spring bow 11 rests against the low part of the cam incline 2. By pressing down upon the blade holding plate their position is changed from that shown in Fig. 2 to that shown in Fig. 1. During this shifting of the parts, the end of the bow 11 rides up on the incline 2, thereby swinging the plate 10 on its hinged connection, bringing the forward edge of said plate down into contact with the blade 7, where it presses with sufficient force to hold the blade in place. When the parts stand in the position shown in Fig. 1, the end of the spring bow 11 rests in and is frictionally retained by the keeper shoulder adjacent to the notch 3. When the parts are in the position shown in Fig. 1 they are ready for use. To separate the parts pressure is applied upwardly against the underside of the spring bow 11, sufficient to dislodge the end of said bow from the notch 3, whereupon the parts may be shifted to the position shown in Fig. 2, wherein the blade 7 may be removed and the plate 10 slipped off.

By this very simple and comparatively inexpensive arrangement, an effective safety razor is produced, capable of withstanding the severest usage, and of performing the intended function in the most acceptable manner.

What I claim is:

1. In a safety razor, a handle, a cam connected therewith, a blade support connected

with the handle and slidable relatively to said cam, a blade gripping means operatively connected with said support and operated by said cam.

5 2. In a safety razor, a handle, a cam carried thereby, a blade supporting means carried by said handle and slidable relatively to said cam, a blade gripping means fulcrumed between its ends on said supporting
10 means and operable by said cam.

3. In a safety razor, a handle portion, a blade support, a connection between said blade support and handle to permit the longitudinal movement of one part relatively to the other, a blade holding member
15 carried by the blade support, a cam incline carried on the handle and a connection between said blade holding member and the cam incline whereby when the blade support
20 and blade holding members are moved

toward the handle said holding member will be moved into the blade holding position, said connection between the blade holding member and said cam comprising a yielding bowed extension at the rear of
25 said holding member, the end of said extension engaging said cam incline, and a keeper shoulder on said handle.

4. In a safety razor, a handle, a cam carried thereby, a blade supporting means carried by said handle and slidable relatively
30 to said cam, a blade gripping means fulcrumed between its ends on said supporting means and operable by said cam, said blade gripping member comprising a bowed resilient plate.
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