

No. 840,965.

PATENTED JAN. 8, 1907.

W. SCHMACHTENBERG.
SAFETY RAZOR.

APPLICATION FILED JULY 25, 1906.

Fig. 1.

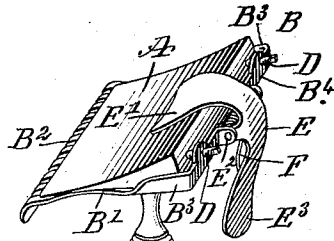


Fig. 2.

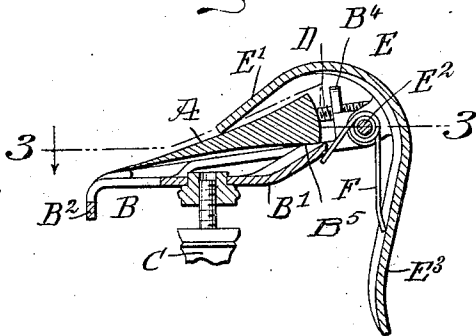


Fig. 5.

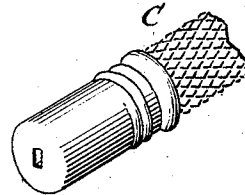


Fig. 3.

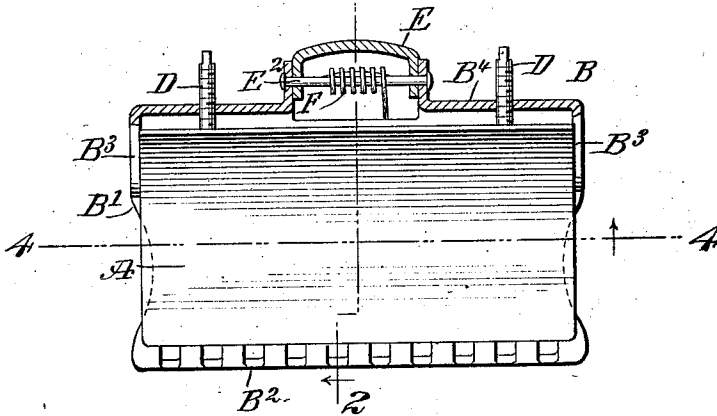
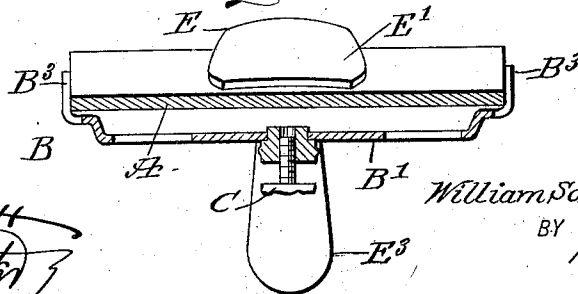


Fig. 4.



WITNESSES

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WILLIAM SCHMACHTENBERG, OF NEW YORK, N. Y.

SAFETY-RAZOR.

No. 840,965.

Specification of Letters Patent.

Patented Jan. 8, 1907.

Application filed July 25, 1906. Serial No. 327,661.

To all whom it may concern:

Be it known that I, WILLIAM SCHMACHTENBERG, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Safety-Razor, of which the following is full, clear, and exact description.

The object of the invention is to provide a new and improved safety-razor which is very simple and durable in construction, composed of but few parts, not liable to easily get out of order, and arranged to permit minute adjustment of the razor-blade to bring the cutting edge thereof in proper relation to the guard, and to hold the razor-blade positively against rearward motion to maintain the cutting edge in the adjusted position.

The invention consists of novel features and parts and combinations of the same, which will be more fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the improvement. Fig. 2 is an enlarged cross-section of the same on the line 2 2 of Fig. 3. Fig. 3 is a sectional plan view of the same on the line 3 3 of Fig. 2. Fig. 4 is a sectional front elevation of the same on the line 4 4 of Fig. 3, and Fig. 5 is a perspective view of part of the handle used as a wrench for turning the adjusting-screws.

The razor-blade A of the safety-razor rests on the plate B' of the frame B, provided at the under side with a guard B² and on the sides with upwardly-extending flanges B³, in which fit the side edges of the razor-blade A, to limit the sidewise movement thereof, and the said frame B is provided with an upwardly-extending back flange B⁴, carrying adjustable stops in the form of set-screws D, screwing transversely in the flange B⁴ and adapted to be engaged by the back of the razor-blade A to hold the cutting edge thereof in proper relation to the guard B².

The razor-blade A is pressed downward onto the frame-plate B' and is held against the set-screws D by the curved arm E' of a clamp E, fulcrumed at E² on the rear of the frame B at a point approximately midway between the sides of the frame B, so that the arm E' engages the razor-blade A approxi-

mately at the middle thereof to exert a uniform downward pressure on the entire razor-blade. The clamp E is pressed on by a coiled spring F. The clamp E is provided with a downwardly-extending finger-piece E³, approximately parallel to the handle C, to enable the operator having hold of the handle C to conveniently press the finger-piece E³ with a view to swing the arm E' upward and rearward to release the razor-blade A, and thus allow convenient removal of the same from the frame B or for replacing the razor-blade in the frame whenever it is desired to do so. The plate B' of the frame B is perforate and somewhat dished to allow ready passage of the lather, thereby preventing the guard from clogging up during the shaving operation. The plate B' is raised at the sides adjacent to the side flanges B³ to form seats B⁵ for the razor-blade A to rest on, so that the under side of the razor-blade extends from the dished portion of the top plate B' of the latter, as previously mentioned.

It will be noticed that by adjusting the set-screws D the cutting edge of the razor-blade A can be readily brought into accurate relation to the guard B², and by having the clamp E pressing the razor-blade A downwardly against the seats B⁵ it is evident that the back of the razor-blade is held firmly seated on the set-screws D, and the proper relation between the cutting edge of the razor-blade A and the guard B² is positively maintained. The pressure on the razor-blade A during the shaving operation is in a rearward direction, for as the razor-blade is firmly seated against the set-screws D its positive relation to the guard B² is not disturbed or affected, as is frequently the case with safety-razors in which the razor-blade is yieldingly mounted and pressed forwardly by a spring acting on the back of the razor-blade.

In order to allow convenient adjustment of the set-screws D, one of the sections of the handle C is preferably formed with a wrench portion (see Fig. 5) for engaging the flattened heads of the set-screws D to permit convenient screwing up or unscrewing of the set-screws for adjusting the razor-blade A in a transverse direction, as above described.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A safety-razor, comprising a handled

frame having an integral guard operating in conjunction with the cutting edge of the razor-blade resting in the frame, stops on the rear of the said frame for the back of the razor-blade to abut against, to hold the razor-blade against rearward movement and to maintain the cutting edge of the razor-blade in its position relative to the guard, and a spring-pressed manually-controlled clamp fulcrumed on the rear of the said frame at a point approximately midway between the sides of the frame, the said clamp having a forwardly-extending clamping-arm engaging the top of the razor-blade approximately at the middle thereof to press the razor-blade downward.

2. A safety-razor, comprising a handled frame having an integral guard operating in conjunction with the cutting edge of the razor-blade resting in the frame, stops held transversely adjustable on the rear of the said frame for the back of the razor-blade to abut against, to hold the razor-blade against rearward movement and to maintain the cutting edge of the razor-blade in its position relative to the guard, and a spring-pressed, manually-controlled clamp fulcrumed on the rear of the said frame at a point approximately midway between the sides of the said frame, the said clamp having a forwardly-extending clamping-arm engaging the top of the razor-blade approximately at the middle thereof to press the razor-blade downward.

3. A safety-razor, comprising a handled frame having an integral guard operating in conjunction with the cutting edge of the razor-blade resting in the frame, stops in the form of set-screws arranged transversely on

the rear of the said frame for the back of the razor-blade to abut against, to hold the razor-blade against rearward movement and to maintain the cutting edge of the razor-blade in its position relative to the guard, and a spring-pressed, manually-controlled clamp fulcrumed on the rear of the said frame at a point approximately midway between the sides of the said frame, the said clamp having a forwardly-extending clamping-arm engaging the top of the razor-blade approximately at the middle thereof to press the razor-blade downward.

4. A safety-razor, comprising a razor-blade, a handled frame having a perforate top plate for the razor-blade to rest on, and provided with side and rear flanges extending upwardly and raised seats adjacent to the said side flanges, an integral guard on the front of the said top plate, set-screws screwing transversely in the rear flange for the back of the razor-blade to rest on, and a spring-pressed clamp fulcrumed on the rear of the said frame and having a clamping-arm for engaging the face of the razor-blade and pressing the latter downward against the said seats, the clamp having a finger-piece for engagement by the operator and extending approximately parallel to the handle of the said frame.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM SCHMACHTENBERG.

Witnesses:

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EVERARD B. MARSHALL.