

P. H. UNSINGER.  
SAFETY RAZOR.  
APPLICATION FILED OCT. 17, 1908.

932.518.

Patented Aug. 31, 1909.

Fig. 1.

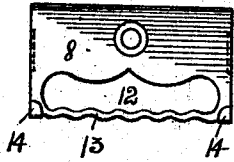


Fig. 2.

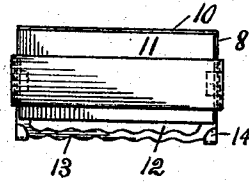


Fig. 3.

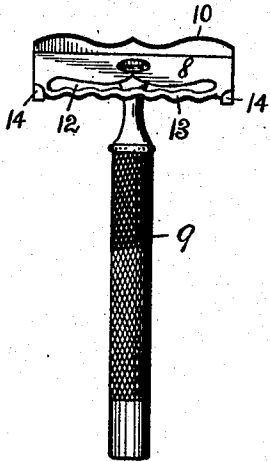


Fig. 4.

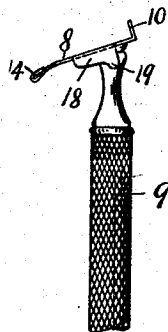


Fig. 5.

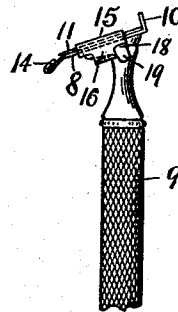


Fig. 6.

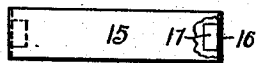
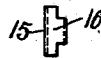


Fig. 7.



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# UNITED STATES PATENT OFFICE.

PHILIP H. UNSINGER, OF FREMONT, OHIO.

SAFETY-RAZOR.

932,518.

Specification of Letters Patent. Patented Aug. 31, 1909.

Application filed October 17, 1908. Serial No. 458,149.

To all whom it may concern:

Be it known that I, PHILIP H. UNSINGER, a citizen of the United States, and a resident of Fremont, in the county of Sandusky and State of Ohio, have invented a certain new and useful Safety-Razor; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to safety-razors, and has for its object the provision of an improved simple, durable and highly efficient razor of this class, which is composed of a minimum number of parts, is cheap of manufacture, and is capable of being easily and quickly assembled or taken apart for the purpose of cleaning or the removal of its blade.

The operation, construction and arrangement of the parts of the invention are fully described in the following specification, and illustrated in the accompanying drawing, in which,—

Figure 1 is a front view of the blade-holder with the blade removed. Fig. 2 is a similar view of the holder with the blade clamped in position thereon. Figs. 3 and 4 are different side elevations of the holder and its handle. Fig. 5 is a view similar to Fig. 4 with the blade clamped in position thereon, and Figs. 6 and 7 are top plan and end views, respectively, of the blade clamp, the former having a portion broken away.

Referring to the drawings, 8 designates the blade-holder, which is preferably stamped from sheet-metal and is carried at one end of a handle 9 which projects at an oblique angle from the rear side thereof, as is customary in this class of razors. The rear edge of the holder 8 is formed with a shoulder 10 against which the rear edge of the blade 11 abuts when in position, and has its forward edge portion extended beyond the cutting edge of the blade and curved slightly inwardly, or in the direction of the handle, to expose such cutting-edge and form a guard therefor. The holder 8 is provided near the forward edge thereof with the elongated opening 12, which extends to near each end of the holder and has its outer rim portion forming an inte-

gral guard-bar 13. This bar is preferably of the same diameter throughout its length but has both edges thereof of sinuous formation to give the bar a comb effect. With this construction of guard a smooth surface is presented to the skin and the irritating effect on the skin of the comb type of guards heretofore commonly used is avoided. Each forward corner of the holder 8 is formed with an integral spur or lug 14, which is bent over on the front face of the holder to form guards for the sharp corners of the blade to prevent cutting of the face thereby.

The means employed for firmly securing a blade to the holder comprises a clamp-bar 15 of sheet metal, which has its ends bent down, as shown at 16, to embrace the ends of the holder and then bent to provide the inwardly projecting lips 17 which cooperate with tongues 18 at the opposite ends of the holder to hold the clamp firmly against the blade. The tongues 18 are formed integral with the ends of the holder being bent rearwardly at right-angles thereto, and have their lower edges tapering relative to the holder face, as shown, to cause a gradual tightening of the clamp against the blade when the clamp is moved rearwardly on the holder with the lips 17 thereof in engagement with the tongues 18. The tongues 18 are provided at the rear ends of their tapered edges with stop-lugs 19 to limit the rearward movement of the clamp thereon.

In the use of my invention, a blade 11 is placed on the holder 8 with its rear edge in abutment with the shoulder 10 thereon and is then firmly clamped in position by placing the clamp-bar 15 over the holder and blade and moving it rearwardly thereon until the lips 17 of its bent ends move along the tapered edges of the tongues 18 and are stopped by contact with the stop-lugs 19, as shown in Fig. 5. The blade when in position on the holder has its cutting edge disposed over the opening 12 short of the forward edge thereof to permit lather which is scraped from the face to pass therethrough.

I desire it to be understood that my invention is not limited to any specific form or arrangement of parts except in so far as such limitations are specified in the claims.

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

1. A safety-razor, comprising a holder

stamped from sheet-metal and having its rear edge bent up to form a blade-stop, its ends provided with integral tongues which are bent down at right angles to the holder face and have their lower edges tapered relative to the plane of the holder face, said holder also having its forward portion provided with an elongated opening, the outer rim of said opening being stamped to provide a guard-bar having sinuous edges and a smooth face contacting surface, a handle attached to the holder, a blade carried by the holder, and a clamp-bar in removable sliding engagement with the holder and, adapted to bear against the blade and having its ends turned downwardly and inwardly to embrace the ends of the holder and slidingly cooperate with the tapered edges of said tongue to cause the clamp to hold the blade firmly to the holder.

2. A safety-razor, comprising a holder stamped from sheet-metal and provided at its rear edge with a blade-stop, at its ends with integral tongues which project downwardly at right-angles to the holder-face

and have their lower edges tapered relative to the plane of the holder face, and having its forward edge curved inwardly and provided with an elongated opening and its forward corners provided with integral lugs, which latter are bent upon the body of the holder to form guards for the points of the blade, the outer rim of said opening being stamped to form a sinuous guard-bar having a smooth face contacting surface, a handle attached to the holder, a blade carried by the holder with its cutting edge disposed over said opening, and a clamp having its ends bent to engage the tapered edge of said tongues and adapted to cooperate with the holder to clamp the blade thereto.

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

PHILIP H. UNSINGER.

Witnesses:

PETER UNSINGER,  
M. F. ENGLER.