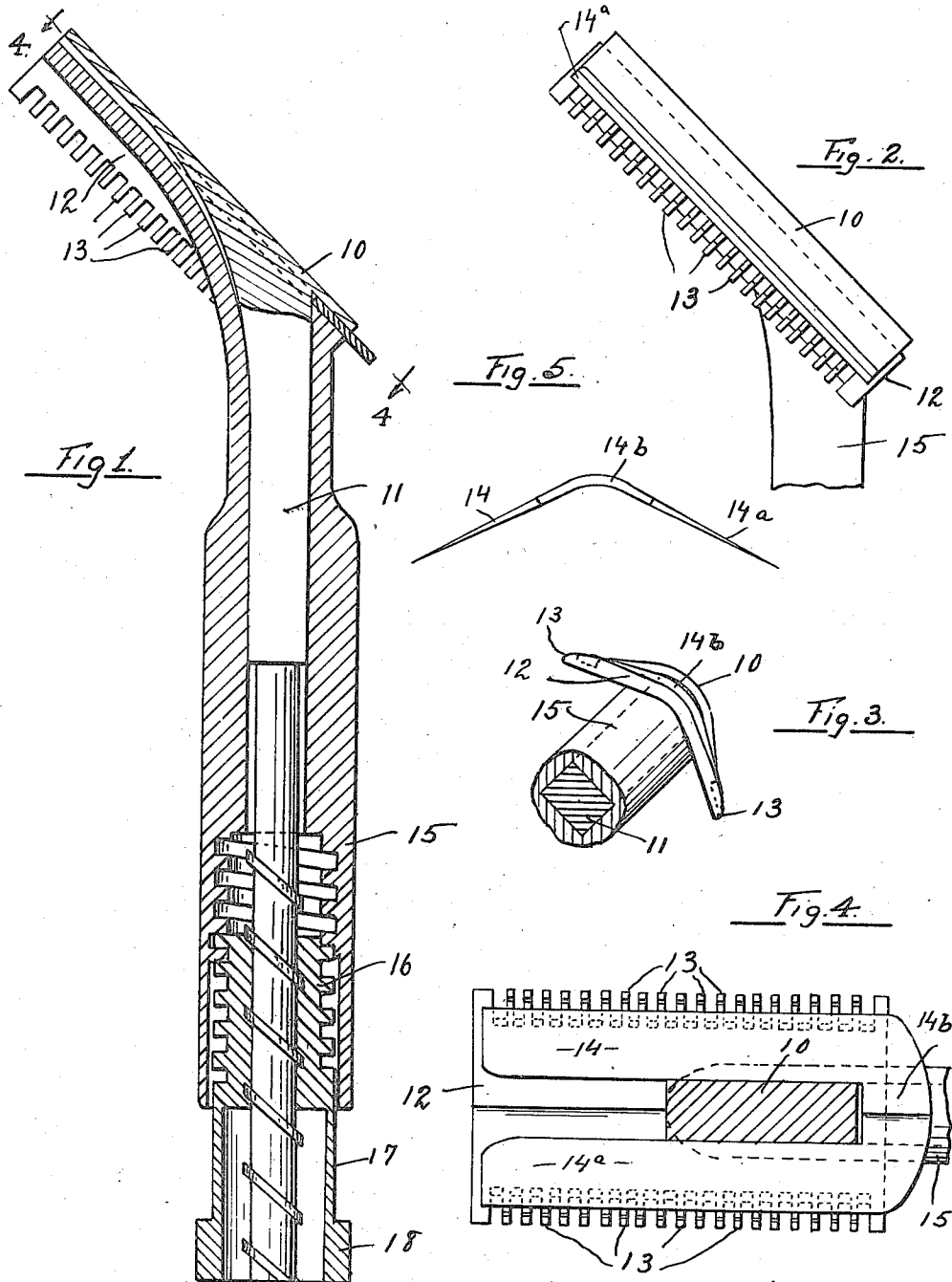


1,238,069.

Patented Aug. 21, 1917.



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SAFETY-RAZOR.

1,238,069.

Specification of Letters Patent.

Patented Aug. 21, 1917.

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To all whom it may concern:

Be it known that I, DAVID E. TELA, a citizen of the United States, residing at the city of Los Angeles, county of Los Angeles, and State of California, have invented new and useful Improvements in Safety-Razors, of which the following is a specification.

The principal object of this improvement is to provide a safety razor by means of which the operation of shaving can be performed with great ease, convenience and comfort and without obscuring from view the cutting edge of the razor.

Heretofore safety razors have been constructed of two general types, one having a handle projecting centrally at right angles from the longitudinal plane of the blade, and the other having a handle projecting from the end of the blade and in alinement therewith. In the first construction it frequently occurs that the operation of shaving includes strokes both in the direction of the nap of the beard and in the reverse direction which is likely to bring the hand of the user in such position as to obscure from the view of the person shaving himself the cutting edge of the razor.

With the second type it is found inconvenient to use the blade in both directions.

In the present invention I have produced a third type of safety razor in which the handle extends from the end of and aslant relative to the plane of the blade and longitudinally thereof so that in the operation of shaving oneself the blade may be moved in all directions with great ease and convenience and without bringing the hand of the user into position to prevent the user from seeing in the mirror the image of the cutting edge of the razor.

A further object is to provide a safety razor in which the blade has two cutting edges and the parts between the cutting edges on each side of the longitudinal line are angularly disposed as to each other and which can be easily and quickly positioned in the holder without flexing it and can be quickly removed therefrom without disassembling the parts thereof.

A further object is to provide a head and handle which will hold the blade firmly and the parts of which can be easily and quickly assembled and can be easily and quickly cleaned without disassembling the parts.

Other objects will further appear from the description of the parts.

In the drawings forming a part hereof:

Figure 1 is an enlarged central longitudinal section of my improved safety razor.

Fig. 2 is a side elevation of the upper end thereof.

Fig. 3 is a rear end view of the blade holder.

Fig. 4 is a section on the line 4—4 of Fig. 1.

Fig. 5 is an enlarged end view of the blade viewed from the open end.

Referring to the drawings 10 is a clamp provided with a shank 11 which projects from near one end thereof at an angle substantially 135 degrees to the longitudinal plane of the clamp. The lower end of shank 11 is externally screw threaded. 12 is a head which is provided with guard fingers 13 all of which fingers except one at each end are cut away in their upper surfaces except at the points thereof so as to be clear of the shaving portions 14 and 14^a of the blade when it is positioned for use. Head 12 has a hollow shank 15 which forms the handle of the razor. Shank 15 surrounds shank 11 and at the upper end is in sliding but non-revoluble contact therewith. In the lower portion the two shanks are separated. Near the lower end of shank 15 a portion of the internal surface thereof is screwthreaded, the threads being cut reversely as to the threads of shank 11. An annular operating screw 16 is threaded externally and engages the threaded portion of shank 15 when the parts are assembled for use. Screw 16 is also internally threaded and engages the threaded portion of shank 11. Screw 16 has a shank 17 with a milled head 18 by means of which it is rotated to cause the clamp to approach head 12 or to move away from said head. Head 12 and clamp 10 form a blade holder.

In order to keep the shank 11 and the tubular handle part 15 in operative connection with the screw shank 17 and so that it will be impossible to get these parts disconnected accidentally the threads on the outer side of the screws are made longer than the length necessary for the actual operation so that when the holder is clamped the screws are still in engagement with each other. The screw end of the shank 17 is threaded a

corresponding length and thus when the handle is inscrewed to its termination and the clamp is opened to its limit the threaded portions are still in engagement with the screw 16, but it can be disconnected, when in that position, by screwing out the shank of the clamp independently and it is connected in the same way by screwing that portion of the shank in advance into the screw.

The blade is preferably U-shaped and when positioned for use the members of the blade straddle the shank of the upper clamp. I prefer to make the blade of the shape shown in Fig. 5 which shows the cutting edge portions 14 and 14^a of the blade triangular in cross section. The shank 14^b is bent to bring the portions 14 and 14^a to lie in contact with the head without being flexed. This brings the portions between the cutting edges and the central longitudinal line angularly disposed as to each other. The upper surface of the head, transversely, projects toward the central longitudinal line on straight lines which slope upwardly to their meeting point at the angle at which a razor is usually held on the face when shaving. The lower surface of the clamp is of a shape to fit upon the blade so that it is held firmly when positioned for use without flexing it.

By this construction it will be observed that after the operator has shaved he can easily and quickly cause the clamp to separate far enough from the head to remove the blade and for cleansing purposes, without the clamp and head and handle being disengaged.

It will be observed that my razor blade is manufactured to the shape required for shaving and that it is positioned on the head without flexing and is held by the clamp in the correct position without its being flexed.

It will be observed that the U-shaped blade enables me to detach the blade without causing the other parts to become detached. Projecting the handle from one end of the head at an angle to the longitudinal plane line of the head enables the user to see the face at the contact point between the blade and the face when shaving.

The features of my device will facilitate the convenience of the operator. The double action screw facilitates quick action for opening or closing the holder and great benefit is obtained from the simple form of the parts by means of which all parts of the holder can be kept in actual operative connection with each other, but can be de-

tached conveniently if for any reason it is so desired. This feature of my device does away with the inconveniences of so many safety razors which require separation of their holder parts and reassembling again every time a razor is used. The blade is positioned in the holder with very little attention from the operator, just place it on the shank of the clamp and it is positioned when the holder is clamped. The angle at which the handle is secured to the holder gives greater liberties to the hand to manipulate the device to greater advantage.

While I have shown what I believe to be the preferred form of my invention I do not wish to be limited to the precise details of this construction, as it is obvious and appreciable that the parts and combination of parts may be changed and varied within a wide range and still embody the principles of the invention.

Having described my invention what I claim is:

A safety razor, including a blade-holder comprising a clamp with a diagonally upwardly extending portion and a downwardly extending portion or shank, said shank projecting from near one end of said clamp at a given angle to the longitudinal plane thereof, the lower end of said shank being screw-threaded, a head having guard-fingers, and a tubular shank receiving the shank of said clamp and having a slidable but non-rotatable connection therewith, the upper surface of said head projecting transversely with respect to the central longitudinal line thereof in right lines sloping upwardly to the apex-point, the same being the angle at which a razor is usually held upon the face for shaving, the lower surface of said clamp conforming to the blade as against the flexing of the blade, and a tubular externally screw-threaded member telescoping, and threaded into the lower end of the shank of said head, the lower portion of the shank of the clamp having a screw-threaded connection with said externally screw-threaded tubular member, the threads of the screw of said shank of said head being of a different pitch from that of the threads of the screw of shank of said clamp and of lesser axial extent.

In witness that I claim the foregoing I have hereunto subscribed by name this day of January, 1916.

DAVID E. TELA.

Witnesses:

G. E. HARPHAM,
FRANK WATERFIELD.