

M. HAUSER.
SAFETY RAZOR.
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1,024,570.

Patented Apr. 30, 1912.

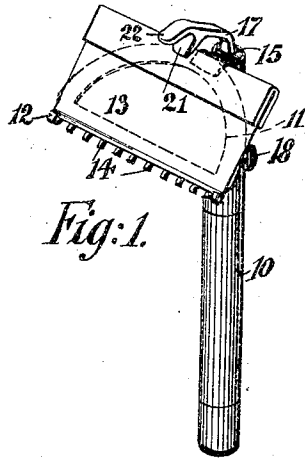


Fig. 1.

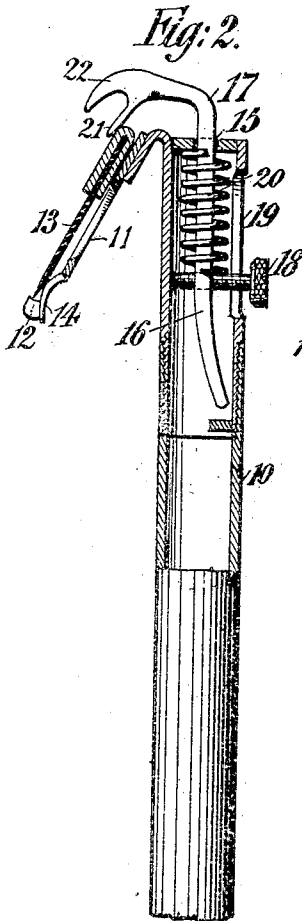


Fig. 2.

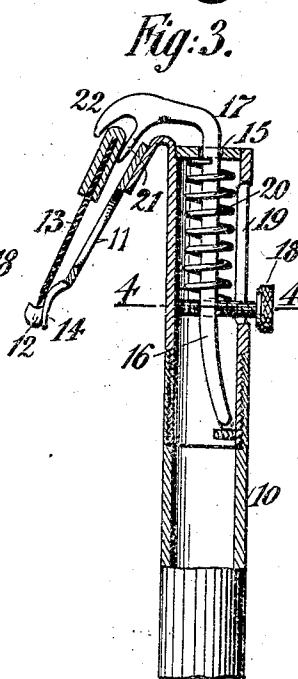


Fig. 3.

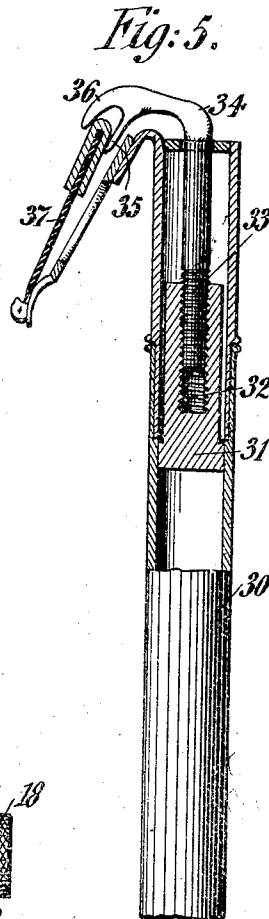


Fig. 5.

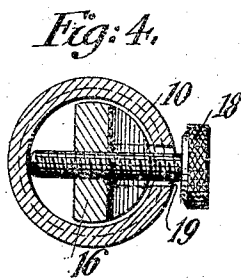


Fig. 4.

Witnesses:
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MARTIN HAUSER, OF RICHMOND HILL, NEW YORK.

SAFETY-RAZOR.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, MARTIN HAUSER, a citizen of the United States, and resident of Richmond Hill, Long Island, county of Queens, and State of New York, have invented certain new and useful Improvements in Safety-Razors, of which the following is a specification.

This invention relates to safety razors of the type which have a blade holding frame and a blade releasably held on said frame.

The object of the invention is to provide a blade holding means for the safety razor which will hold the blade on the blade holding frame at any one of a plurality of positions so that the angle of the cutting edge to the guard teeth of the blade holding plate may be varied at the will of the user. To this end I have provided a safety razor having a blade holding frame with means for varying the position of the angle of the blade thereon, and more particularly a safety razor having a blade holding frame carried by a handle and provided at its lower corners with blade holding corner guards and provided at the upper part of the frame with a blade holding device having a pair of spaced fingers and adapted to engage the upper part of the blade with the inner or lower finger and hold the blade flat against the blade holding frame or which may engage the rear edge of the blade between said fingers and hold the blade at another position with its rear edge spaced from the upper part of the blade holding frame.

In the accompanying drawing forming a part of this specification: Figure 1 is a perspective view of one form of the safety razor, Figs. 2 and 3 each show a sectional view extending longitudinally through the handle of the safety razor and transversely through the blade holding frame, the blade being held in different positions, Fig. 4 is a transverse sectional view taken on the line 4-4 of Fig. 3, and Fig. 5 is a similar view of a modified form of the invention.

Similar reference characters refer to similar parts throughout the several figures of the drawing.

Referring more particularly to Figs. 1 to 3, the safety razor is shown provided with a tubular handle 10 on which is supported at a downwardly inclined angle the blade holding frame 11 provided at its lower corners with corner holding guards 12

adapted to receive corners of the blade 13. Between the corner holding guards 12 the blade holding frame is provided with a plurality of suitably shaped guard teeth 14. The upper part of the handle 10 is closed with a top having an elongated slot 15 extending parallel to the back of the razor blade. Through this slot 15 is slidably passed the flat shank 16 of the holding device 17, the lower end of said shank being curved backwardly so that it may be brought into engagement with the inner face of the tubular handle 10. The intermediate part of the shank 16 is provided with a screw threaded hole in which is screwed a stem of a set-screw 18 passing through a longitudinal slot 19 at the rear of the tubular handle and by the aid of this set screw the lower end of the shank may be brought into engagement with the inner face of the handle, as stated. Between this set-screw and the closed upper end of the handle is interposed a coil spring 20 tending to force the holding device 17 downwardly as is apparent. The upper end of the holding device 17 is bent forwardly over the rear of the blade and is provided with a plurality of divergent fingers 21 and 22. The inner finger 21 is adapted to press upon the outer face of the rear edge of the blade and press the same firmly against the upper part of the blade holding frame. This will place the cutting edge of the razor in the position relative to the guard teeth shown in Fig. 1. If it is desired to bring the cutting edge of the blade more nearly parallel to the guard teeth, the set-screw 18 and with it the holding device 17 is pressed upwardly until the finger 21 entirely clears the rear edge of the blade when the rear edge of the blade is brought slightly forward and placed between the fingers 21 and 22 as shown in Fig. 3, in which position the blade and fingers are yieldably held by the spring 20. If it is desired to firmly maintain the blade in these positions the lower part of the shank 16 is brought against the inner face of the handle by means of the set-screw 18. In Figs. 2, 3 and 4, the set-screw has not been screwed up for clamping the parts in place, hence the lower end of the shank is not shown in contact with the handle-wall. The guard-teeth are upwardly-curved, and provide a fulcrum for the blade at a point adjacent its edge, whereby upon movement of the

rear-portion of the blade as described, the edge is depressed toward or raised from the forward portion of the guard-teeth, as shown in Figs. 2 and 3. The lower part of the handle 10 may be unscrewed from the upper part thereof if desired for packing the safety razor in a small place.

In the modified form shown in Fig. 4, the safety razor is provided with a handle 30 the lower part of which is rotatable relative to the upper part and carries a plug 31 having a threaded bore 32 receiving the lower threaded end of the shank 33 of the holding device 34. By rotating the lower part of the handle 30 the holding device 34 may be raised or lowered to engage or disengage the fingers 35 and 36 from the rear end of the blade 37 in a manner similar to that described in Figs. 1 to 3.

It is understood that I do not limit myself to the particular construction or details herein described as various changes in construction and detail may be made without departing from the spirit and scope of the invention as defined in the claim.

I claim as new:

In a safety razor, the combination of a tubular handle having at its rear part a lon-

gitudinal slot and having a closed upper end having an elongated slot, a blade holding frame carried on said handle and provided at its lower edge with guard teeth and corner guards, a blade having its lower corners received in said corner guards, a holding device having a flat shank extending through said elongated slot and having its lower end bent rearwardly, a set-screw passing through said longitudinal slot and screwed into said shank, a spiral spring interposed between said set-screw, and the closed upper end of the handle, the upper end of said holding device being bent forwardly over the rear edge of said blade and provided with a pair of divergent fingers the inner finger being adapted to engage over the rear edge of said blade and press the blade flat against said frame, said fingers being also adapted to embrace the said rear edge.

In testimony that I claim the foregoing as my invention, I have signed my name in presence of two subscribing witnesses.

MARTIN HAUSER.

Witnesses:

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