Jan. 10, 1939. L. BLUMENTHAL 2,143,643

RAZOR

Filed Feb. 2, 1938

Fig. 2

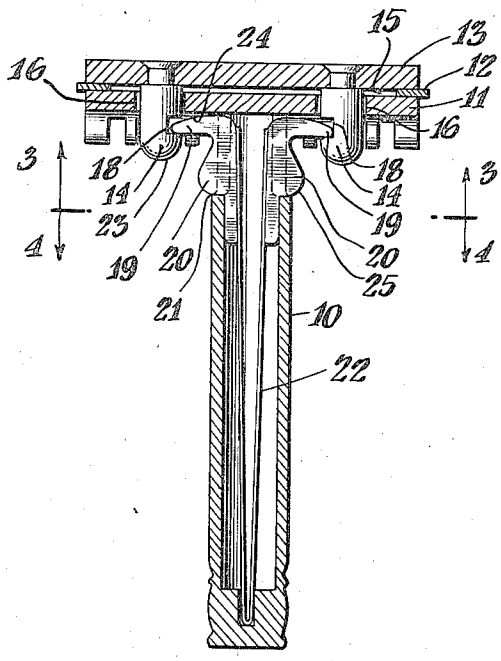


Fig. 1

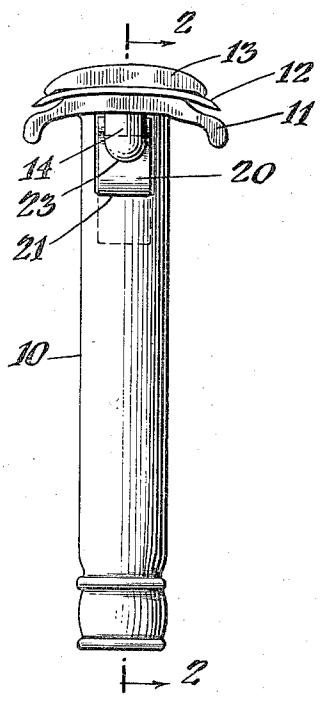


Fig. 3

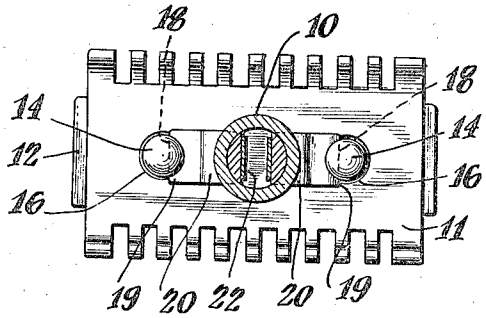


Fig. 4

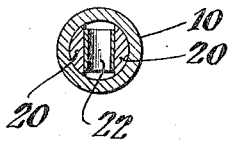
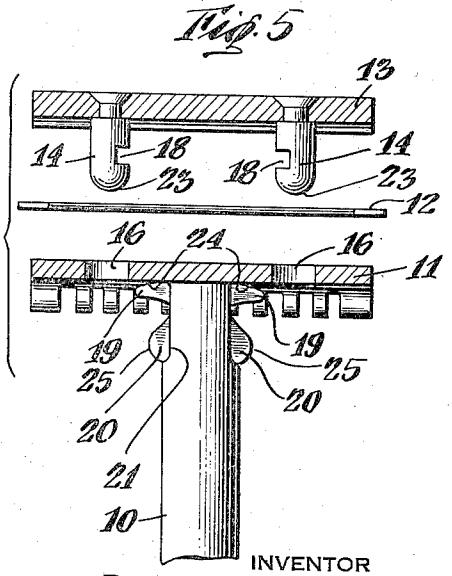


Fig. 5



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RAZOR

Louis Blumenthal, Brooklyn, N. Y.

Application February 2, 1938, Serial No. 188,232

1 Claim. (Cl. 30—68)

This invention relates to safety razors and more particularly to razors of the flexible blade type.

An object of the invention is to provide a novel and improved razor of the above type in which the blade may be readily inserted or removed.

Another object is to provide a novel and improved construction in a safety razor whereby the blade may be inserted or removed without unscrewing the handle.

Another object is to provide a razor having a novel and improved construction which permits the handle to be readily snapped into or out of operating position.

Various other objects and advantages will be apparent as the nature of the invention is more fully disclosed.

Although the novel features which are believed to be characteristic of this invention will be more particularly pointed out in the claim appended hereto, the invention itself may be better understood by referring to the following description, taken in connection with the accompanying drawing, in which a specific embodiment thereof has been set forth for purposes of illustration.

In the drawing:

Fig. 1 is a side elevation of a razor embodying the present invention;

Fig. 2 is a section taken on the line 2—2 of Fig. 1;

Fig. 3 is a transverse section taken on the line 3—3 of Fig. 2 and looking in the direction of the arrow;

Fig. 4 is a similar transverse section taken on the line 4—4 of Fig. 2; and

Fig. 5 is an exploded view showing the parts of the razor in position to be assembled.

In the following description and in the claim certain specific terms are used for convenience in referring to various details of the invention. It is to be understood, however, that these terms are to be given as broad an interpretation as the state of the art will permit.

Referring to the drawing, the invention is shown as applied to a razor having a hollow, tubular handle 10 attached to a guard 11 and having a flexible blade 12 secured to the guard 11 by means of a removable head 13. The guard 11, blade 12 and head 13 may be of standard construction and shape substantially as shown in the drawing. For that reason a detailed description thereof is not included herein.

In the embodiment shown, the head 13 is provided with a pair of pins 14 which extend through a slot 15 in the blade 12 and through suitable apertures 16 in the head 11. These pins 14 are provided with notches 18 which are adapted to be engaged by fingers 19 carried on pawls 20 which are mounted within the hollow handle 10 and extend outwardly through slots 21 therein. A spring 22 may be provided to normally urge the pawls 20 outwardly and to cause the fingers 19 thereof to engage the notches 18 and to thereby securely hold the head 13 in assembled position. The heads of the pins 14 are rounded as at 23 and the fingers 19 are provided with slightly rounded surfaces 24 which are adapted to automatically snap over the heads of the pins 14 and into the notches 18 when the parts of the razor are assembled. The pawls 20 are provided with rounded projecting surfaces 25 which extend through the slots 21 in the handle 10 and are adapted to be engaged by the hand of the operator for retracting the pawls 20 when the razor is to be dis-assembled.

In the above mentioned construction it will be noted that the guard 11 is permanently attached to the handle 10. The razor accordingly has only two separable parts. When it is desired to insert a blade the blade is positioned on the head 13 in the usual manner with the slot 15 of the blade extending over the pins 14 which hold the blade in its proper position. In order to assemble the razor the guard 11 is pressed against the blade 12 with the pins 14 extending through the apertures 16 therein. This may be accomplished by grasping the handle 10 and applying longitudinal pressure for causing the pawls 20 to be retracted by the cooperating surfaces of the fingers 19 and the pins 14 until the guard has been depressed sufficiently to permit the fingers 19 to snap into the notches 18. In this position the fingers securely hold the razor in assembled position. The razor may now be used in the usual way and when it is desired to remove the blade, this may be accomplished by pressing inwardly on the surfaces 25 of the pawls 20 to thereby release the fingers 19 from the pins 14 and permit the guard 11 and head 13 to be separated.

It will be noted that in the above construction the razor may be assembled or dis-assembled with a single movement of the hand and without requiring the handle to be turned or screwed. Furthermore, the use of the razor is simplified inasmuch as it involves only two separable parts. It will be noted that the construction is simple, sturdy and is so arranged that it may be manufactured from standard parts.

Although a specific embodiment of the inven-

tion has been shown for purposes of illustration, it is to be understood that the invention is not to be limited thereto, but that various changes and modifications may be made therein as will readily appear to a person skilled in the art. The invention is only to be limited in accordance with the following claim when interpreted in view of the prior art.

What is claimed is:

A safety razor, comprising a hollow handle having a guard member permanently attached thereto, a head adapted to cooperate with said guard member to secure a blade in position therebetween, said head having pins extending through apertures in said guard member to hold the blade, pawls carried in said handle and extending laterally through apertures therein, a spring carried in said handle and normally holding said pawls spread apart, said pins having notches adapte dto be engaged by said pawls for holding said parts in assembled position, said pawls and said pins having cooperating surfaces adapted and arranged to permit the pawls to snap over said pins and into said notches when the parts are completely assembled, said pawls having surfaces extending through apertures in said handle and adapted to be engaged by the fingers of the operator for retracting the pawls, the resilience of said spring being the sole means for holding the said pawls in locking position with the guard member secured against endwise movement, said spring being so constructed and arranged that the finger pressure on said surface constitutes the sole releasing motion required for dis-assembling the parts.

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