

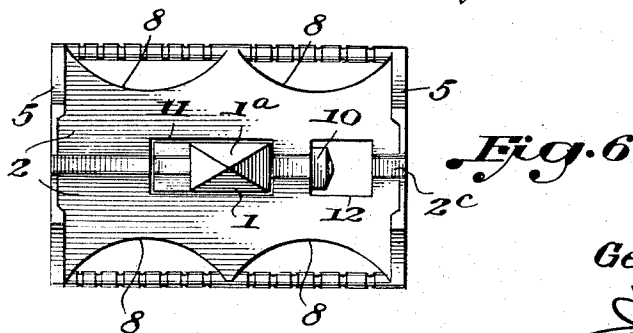
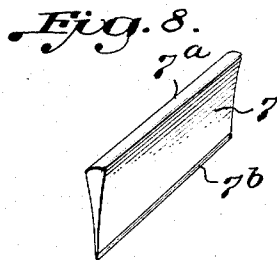
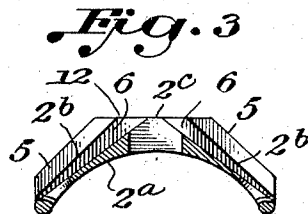
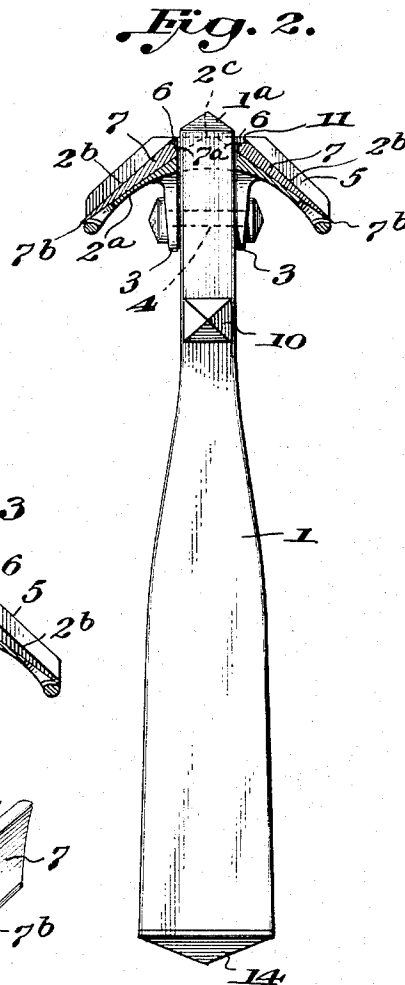
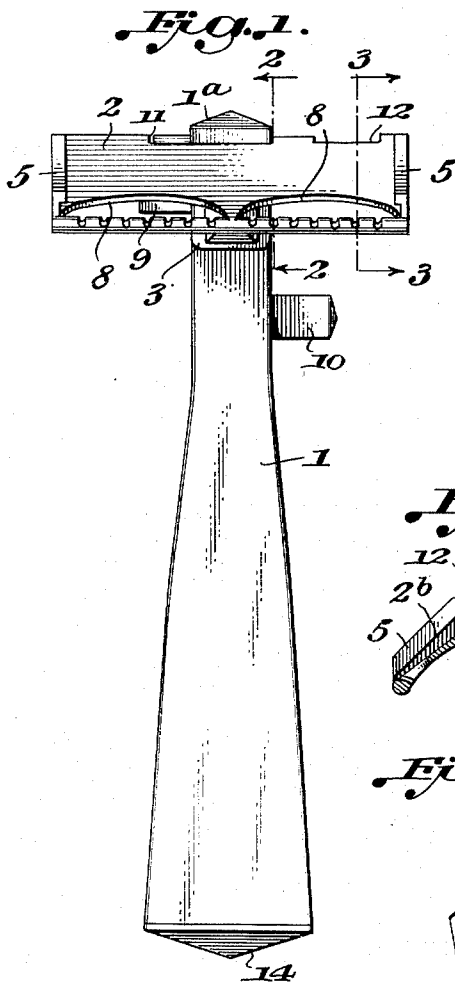
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SAFETY RAZOR

2,517,028

Filed June 19, 1946

2 Sheets-Sheet 1



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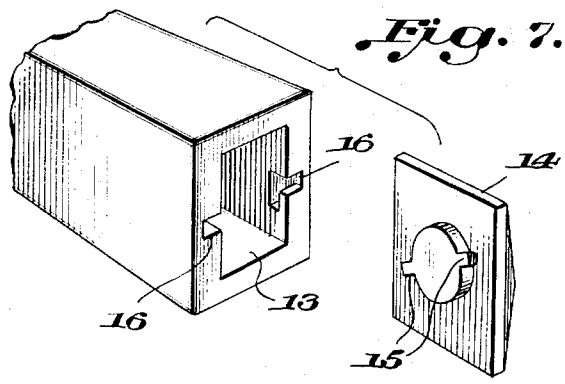
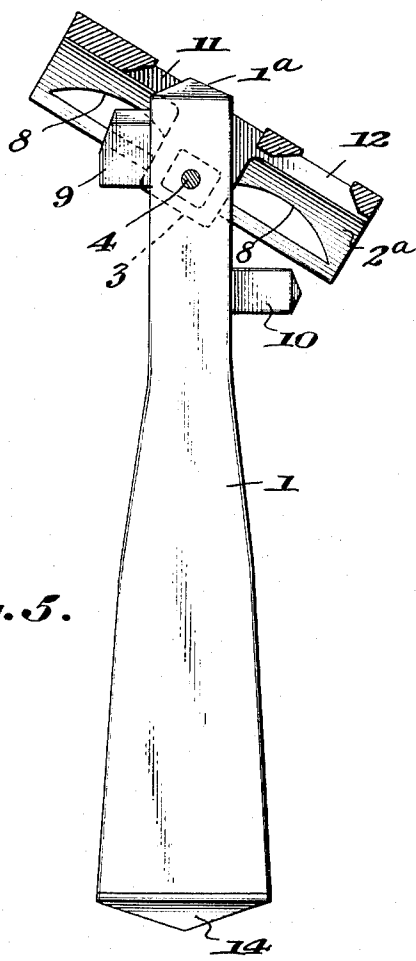
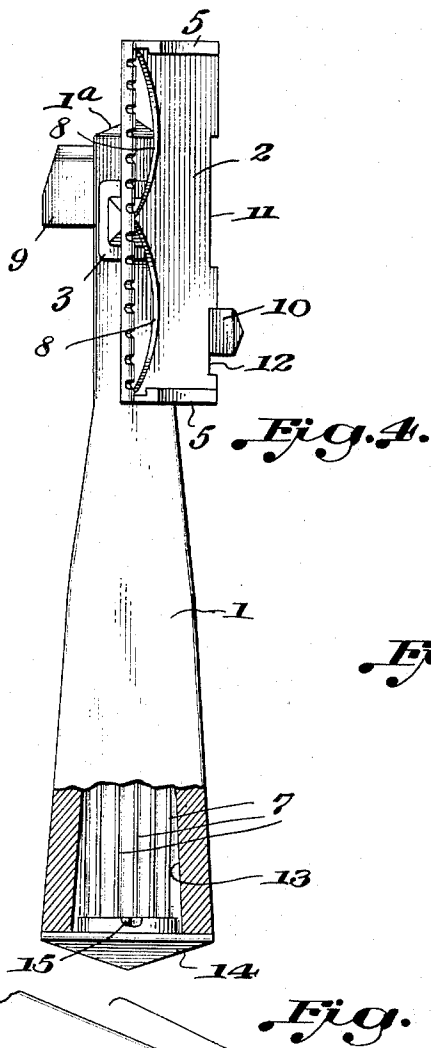
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2,517,028

SAFETY RAZOR

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2 Sheets-Sheet 2



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SAFETY RAZOR

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3 Claims. (Cl. 30—50)

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This invention relates to safety razors of the type having detachable blades, and has as an important object to provide a safety razor which is capable of being converted from the style in which the edge of the razor blade extends substantially parallel to the blade handle to the style in which the edge of the blade is disposed approximately perpendicular to the handle.

Another object of my invention is to provide a safety razor of the above character in which the handle of the razor is pivotally mounted with respect to its head, or blade holding portion, and swingable between parallel and perpendicular positions relative to the head so as to lock the blade thereon in either of these positions, and which is also swingable to a third position so as to permit the insertion or removal of the blade onto or from the head.

An additional object of my invention is to provide a safety razor of the above character in which the handle is pivotally mounted relatively to the head so that the handle may be compactly collapsed into approximate parallelism with the head so as to occupy a minimum amount of space while at the same time positively and non-detachably retaining a blade in operative position on the head ready for use.

Still another object of my invention is to provide a safety razor of the above character which is so constructed and arranged to accommodate blades of less width than the width of the head, and having a hollow handle which is adapted to provide a storage compartment for a supply of blades.

A further object of my invention is to provide a safety razor blade of improved construction.

Other objects and advantages will be apparent from the following detailed description of a preferred embodiment of the invention, reference being had to the annexed drawings in which:

Figure 1 is a plan view of a safety razor;

Figure 2 is a side view of the razor showing the head in cross-section taken on the line 2—2 of Fig. 1;

Figure 3 is a detail cross-sectional view of the head taken on the line 3—3 of Fig. 1;

Figure 4 is a plan view, in part cross-sectional, corresponding to Fig. 1 but showing the head folded parallel to the handle;

Figure 5 is a side view, but showing the head in cross-section, with the head occupying an intermediate position between perpendicular and parallel positions with respect to the handle to permit the insertion and removal of the blades therefrom;

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Figure 6 is an end view of the razor, more particularly showing the outer face of the head;

Figure 7 is a detail view of the end of the handle in which a supply of blades is adapted to be stored, together with the cover for closing the opening in the handle; and

Figure 8 is a perspective view of a safety razor blade.

The safety razor shown in the drawings comprises a handle 1 and a head 2 pivotally mounted upon one end of the handle so that the head may be swung to and from a position perpendicular to the handle, as illustrated in Fig. 1, and a position parallel with the handle, as illustrated in Fig. 4. This pivotal connection comprises a pair of parallel spaced ears 3 projecting from the inner face of the head and snugly embracing two flat sides of the handle, a pin 4 extending through aligned openings in the ears and handle and serving as the pivot upon which the head is adapted to swing.

The head 2, as best shown in Fig. 3, has its inner face 2a cut along an arc while its outer face is defined by two inwardly and upwardly inclined sections 2b and a flat top section 2c. Coextensive with and overhanging the end edges of the inclined sections 2b are blade positioning flanges 5, the space between the flanges and the inclined surfaces of sections 2b providing wedge shaped guide slots 6 corresponding generally to the cross-section of a safety razor blade 7 (see Fig. 2). By virtue of this construction, safety razor blades may be slipped into the guide slots overlying each of the inclined sections 2b and retained in position with their cutting edges accurately aligned with the longitudinal perimetral edges of the head. These perimetral edges each serves as a guard in the course of shaving and the razor head is cut away to provide one or more slots 8 to allow the escape of soap which tends to accumulate in front of the razor blade.

The end of the handle 1 beyond the point of its pivotal connection with the head 2 is provided with locking lugs 9 and 10 integral with and projecting outwardly from the sides of the handle which lie on opposite sides of the pivot pin 4. These lugs are so shaped as to fit within correspondingly shaped openings in the head. That is to say, when the head occupies a position perpendicular to the handle (as shown in Fig. 1) the lug 9 projects through the opening 11 in the head so as to project above the outer face of the head and bear against the unsharpened edges of the two razor blades assembled on the head urging these blades firmly into

their guide slots and locking them against withdrawal; while, when the head occupies a position parallel to the head as illustrated in Fig. 4, the lug 10 enters the opening 12 in the head so as to also overlie the unsharpened edges of the pair of razor blades mounted on the head and locks them in their guide slots. Thus, in either of the two extreme positions of the head one or the other of the locking lugs engages the blades to hold them in operative position. The razor is therefore capable of use either with the head disposed at right-angles to the handle, as shown in Fig. 1, or disposed parallel to the handle, as indicated in Fig. 4.

In order to release the blades so that they may be either inserted or removed from the razor head, the head may be swung to the intermediate position shown in Fig. 5 wherein both lugs 9 and 10 are clear of their openings 11 and 12 and out of obstructing relation to the upper ends of the guide slots. The lugs and openings are suitably dimensioned so that the lugs make a tight binding fit within their openings thus serving to frictionally hold the razor head in either of its two extreme positions of adjustment. The end of the handle 1 is extended to form a nose 1a which passes through an opening in the head, which opening may be an elongation of the lug receiving opening 11, whereby when the head is swung perpendicularly to the handle, the nose abuts a wall of the opening which serves as a stop to properly position the parts.

The handle 1 is of square cross-section and is of expanded size adjacent its outer end, that is, the end opposite from the nose end, so as to provide a hollow storage compartment 13 adapted to contain a supply of safety razor blades 7, as shown in Fig. 4. The end of the handle is open for the insertion and removal of blades and is adapted to be closed by a closure cap 14. The inner face of this cap is provided with a pair of lugs 15 adapted to be received in bayonet slots 16 of the handle for holding the cap in place.

The form of safety razor blade 7 I propose to employ with my razor is best illustrated in Fig. 8. This blade is of generally wedge-shape in cross-section so as to provide a longitudinal thickened non-flexible edge 7a and a thin, flexible cutting edge 7b. The sides of the blade are slightly and oppositely concaved throughout substantially their entire width which I find contributes to the improved cutting action of the blade. The cutting edge 7b will be sharpened to a high degree of keenness and will largely be defined by the line of intersection of the concaved sides of the blade.

The blade just described will preferably be made of metal although it may, if desired, be made of plastic or a combination of metal and plastic.

Obviously various changes in the form, con-

struction, arrangement and combination of the several parts of my new safety razor may be made and substituted for those herein shown and described without departing from the nature and principle of my invention as defined by the following claims.

I claim:

1. A safety razor comprising a head and a handle, said head having an outer face defining a downwardly and outwardly inclined blade-supporting section and a top section extending contiguous to the upper perimetral edge of the inclined blade-supporting section, positioning means upon the blade-supporting section for slidably guiding a razor blade downwardly over the blade-supporting section, an abutment on the head for limiting the sliding movement of the razor blade with its cutting edge projecting beyond the lower perimetral edge of the blade-supporting section, a pair of spaced-apart openings in the top section approximately equidistantly spaced from the upper perimetral edge of the blade-supporting section, a pair of lugs upon the handle projecting in a common plane but at right-angles to each other, and a pivot connecting the handle to the head for swinging the handle in an arc between two extreme positions of movement parallel and perpendicular to the head, whereby in either extreme position of swinging movement one of said lugs is projected through one of said openings in the head to prevent retraction of the razor blade from its positioning means.

2. A safety razor as set forth in claim 1 in which the length of the lugs relative to the arc of swinging movement of the handle is sufficiently short to retract both lugs from their openings in an intermediate position of swinging movement of the handle.

3. A safety razor as set forth in claim 1 in which the outer face of the head includes two oppositely and downwardly and outwardly inclined blade-supporting sections and the top section extends between adjacent perimetral edges of the blade-supporting sections.

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