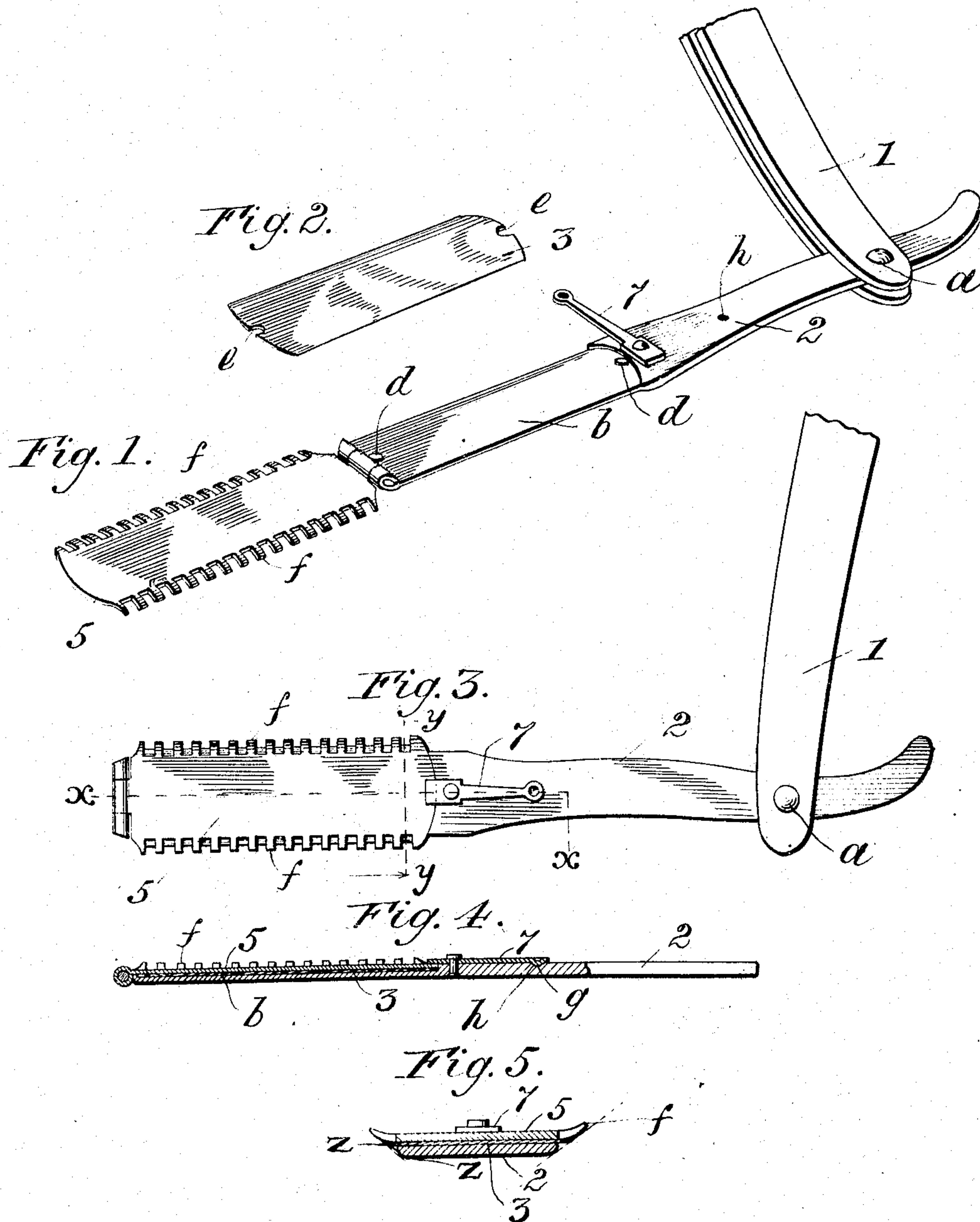


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SAFETY RAZOR.  
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930,373.

Patented Aug. 10, 1909.



WITNESSES

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# UNITED STATES PATENT OFFICE.

JOHN L. GRIMES, OF BALTIMORE, MARYLAND.

## SAFETY-RAZOR.

No. 930,373.

Specification of Letters Patent.

Patented Aug. 10, 1909.

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*To all whom it may concern:*

Be it known that I, JOHN L. GRIMES, of the city of Baltimore and State of Maryland, have invented certain Improvements in Safety-Razors, of which the following is a specification.

Figure 1 is a perspective view of the improved safety razor except that a portion of the handle is broken off; showing the same as open, and with the cutting blade removed. Fig. 2 is a similar view of the cutting blade alone. Fig. 3 is a top view of the open razor with the cutting blade secured in place. Fig. 4 is a section of Fig. 3 taken on the dotted line  $x-x$ . Fig. 5 is a section of Fig. 3 taken on the dotted line  $y-y$ .

Referring now to the drawing, 1 is the handle, and 2 the blade holder which like the blade of a non safety razor, is pivoted to the handle at  $a$ . The blade holder has therein a depression  $b$  which extends to its outer end where it is provided with a hinge member.

3 is a removable cutting blade having a width which is greater than that of the holder 2, adapted to be placed in the depression  $b$ , and secured therein as hereinafter described. The cutting blade 3 is sharpened at both side edges, and its ends are preferably rounded as shown in Fig. 1. The depressed portion  $b$  of the blade holder 2, upon which is laid the cutting blade 3, is provided with projecting pins  $d$ ; and the ends of the blade are notched as at  $e$ , to fit over the pins, so that the blade will be centralized with respect to the lateral edges of the holder.

5 is a folder plate having both its lateral edges notched to produce the prongs  $f$ . The prongs  $f$  are curved upwardly or outwardly, as shown particularly in Fig. 5 of the drawing, in order that they may pass smoothly over the face without their extreme ends pressing thereon. The follower plate 5 at one end thereof has a hinge member which is connected to the hinge member of the blade holder, by means of an ordinary pin, and is thereby adapted to be folded over and upon the cutting blade seated in the depression  $b$ . The upper surface of the blade holder is flush or in horizontal alinement with the outer surface of the blade holder, which admits of the employment of the button 7 which may be turned so as to bring its end over the end of the follower plate and lock it.

In order that the button 7 may remain in its locked position, and yet be easily turned to admit of the removal of the cutting blade either for cleaning purposes, or with the view of substituting a sharp blade for one which has become dull, its tail piece is provided with a rounded projection  $g$ , and the holder with a correspondingly shaped depression  $h$  into which the projection is sprung, as shown in Fig. 4.

By reference to Fig. 3 it will be seen that the width of the blade holder between the prongs  $f$  is less than the width of the cutting blade, consequently the sharpened edges of the blade are seen at the notches when the razor is viewed from its upper side as in that figure.

Referring to Fig. 5 it will be observed that the lateral edges of the blade holder at its under side are rounded; and that the sharpened edges of the cutting blade extend practically to the dotted lines which are drawn across the said rounded edges and the curved surfaces of the prongs  $f$  above the blade. The object in rounding the lateral edges of the blade holder as described, is to cause the skin of the face to be rolled up slightly under the blade, as shown by the line  $z$ , and present the cutting edge of the blade to the beard at an acute angle, thereby producing the effect obtained in the use of a non-safety razor when held flat against the face.

I claim as my invention.

In a safety razor, a blade holder having a depression therein, which extends to its outer end, and having projecting pins as described, combined with a cutting blade which is sharpened at both lateral edges and notched to fit over the said pins, a follower plate hinged to the blade holder, and having both its lateral edges provided with prongs which project beyond the cutting blade, the said follower plate being adapted to fold over and rest upon the cutting blade with its outer surface flush or in horizontal alinement with the portion of the holder adjoining the depression, and a pivoted button to lock the three elements of the device together, substantially as specified.

JOHN L. GRIMES.

Witnesses:

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