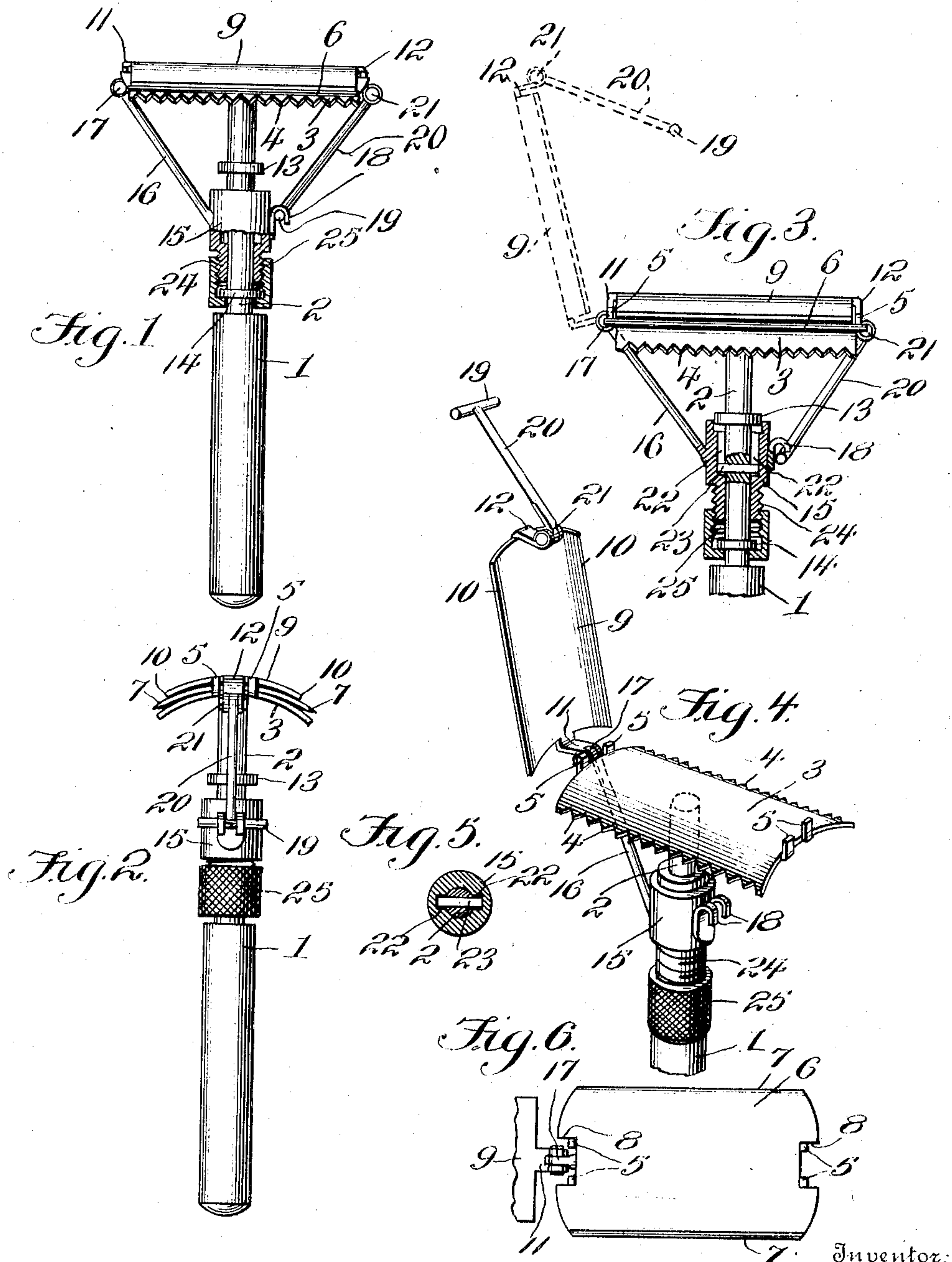


J. STIEGLITZ.
SAFETY RAZOR.
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998,426.

Patented July 18, 1911.



Witnesses:

J. L. Wright

C. C. Hines

Inventor:

J. Stieglitz

By

Robert H. Jones
Attorney

UNITED STATES PATENT OFFICE.

JACOB STIEGLITZ, OF YONKERS, NEW YORK.

SAFETY-RAZOR.

998,426.

Specification of Letters Patent. Patented July 18, 1911.

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To all whom it may concern:

Be it known that I, JACOB STIEGLITZ, a citizen of the United States, residing at Yonkers, in the county of Westchester 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, and particularly to holders and blades for safety razors of that class using double-edged blades.

The object of the invention is to provide a construction of holder and blade whereby the blade may be firmly held and quickly and conveniently applied and released, and whereby blades varying in thickness may be used and held with an equal degree of firmness.

The invention consists of the features of construction, combination and arrangement of parts hereinafter fully described and claimed, reference being had to the accompanying drawing, in which:

Figure 1 is a side elevation, partially in section, of a safety razor embodying my invention. Fig. 2 is an end elevation of the same. Fig. 3 is a view similar to Fig. 1, showing the parts in position for the release of the clamping plate and also showing in dotted lines the clamping plate thrown back to release the blade. Fig. 4 is a perspective view showing the blade removed and the clamping plate in open position. Fig. 5 is a horizontal transverse section through the stem and sliding collar. Fig. 6 is a top plan view showing the blade fitted in place ready to be clamped or removed, and with the clamping plate opened, a portion only of said clamping plate being shown.

Referring to the drawing, 1 designates a handle carrying a reduced stem 2 to which is secured a fixed base or guard plate 3 having comb teeth 4 along its opposite longitudinal side edges. This plate is concavo-convexly curved in transverse section with its concaved face secured to the stem, so that the comb-toothed edges 4 curve in a direction toward the handle to ride smoothly over the surface to be shaved. At each end this plate 3 is provided with a pair of spaced central lugs 5. The blade 6 is of the double-edged type, having opposite longitudinal cutting edges 7, and is adapted to rest upon the center of the convex face of the plate 3 and is provided at its ends with notches

8 to receive and engage the lugs 5, whereby it is held centered with relation to the plate 3. The cutting edges 7 are arranged to cooperate with the comb teeth 4 in the usual manner.

The blade comprises a resilient, normally flat plate adapted to be bowed and held in position by a clamping plate 9 curved correspondingly to the base plate 3 and adapted to be brought into position to clamp the blade along its longitudinal center against the longitudinal central portion of the convex side of said base plate, the inturned edges 10 of said clamping plate operating to bear upon the blade adjacent to its cutting edges and to hold the latter rigid with relation to the comb teeth. At its opposite ends the plate 9 is provided with inbent right-angular ears 11 and 12 adapted to project through the spaces between the lugs 5 and through the notches 8 in the blade and project inwardly beyond the ends of the plate 3 when said plate 9 is in clamping position.

The stem 2 is provided with outer and inner stop flanges 13 and 14, and mounted thereon for sliding movement between said flanges is a collar 15, to one side of which is fixed the inner end of an oblique arm 16, to the opposite end of which the ear 11 of the plate 9 is pivoted, as indicated at 17. At its opposite side the collar 15 is provided with a keeper or latch device comprising a pair of spaced latch hooks 18 adapted to be engaged by a transverse latch bar 19 on the relatively inner end of a latch arm 20, which occupies an oblique position corresponding to that of the arm 16 on the opposite side of the stem when the parts are arranged in clamping position. The opposite end of the arm 20 is pivoted to the ear 12 of the clamping plate, as indicated at 21. By this construction it will be seen that the clamping plate may be swung to clamping position on its pivot 17 and drawn by means of the latch arm into engagement with the blade, and the T-shaped end of said arm interlocked with the hooks to hold said plate in clamping position. In this operation the edges 10 of the clamping plate yield or spring to allow the bar 19 to snap into the hooks and then react to hold said bar in engagement with the hooks, such spring action of the edges 10 placing them under tension to hold the cutting edges of the blade rigid against deflection.

The collar 15 is feathered to the stem for

sliding and against rotary movement in any suitable manner, as by the provision of one or more longitudinal grooves 22 on one part receiving keys or projections 23 upon the other part. Said collar is provided with an externally threaded portion 24 engaged by an internally threaded milled adjusting sleeve 25 formed at its inner end with an intumed flange bearing against the stop flange 14, so that by turning said sleeve in one direction or the other the collar may be adjusted with relation to the base plate 3 to regulate the clamping action of the plate 9 so as to adapt the same to clamp either thin or thick blades or to hold a blade with a greater or less degree of bearing pressure.

I claim:

1. A safety razor comprising a handle, a comb plate carried thereby, a member adjustable toward and from said comb plate, an arm carried by said member; a clamping plate pivoted at one end to the arm, a latch upon the adjustable member, a latch arm pivoted to the free end of the clamping plate and adapted to engage said latch member, and means for adjusting said adjustable member.

2. A safety razor comprising a handle, a member adjustably mounted thereon, a comb plate carried by the handle, a cooperating clamping plate pivotally connected at one end with the adjustable member, means for connecting the opposite end of said clamp-

ing plate with the adjustable member, and means for adjusting said adjustable member.

3. A safety razor comprising a handle, a concavo-convex comb plate carried thereby and provided at its end with pairs of spaced lugs, a blade having end notches to receive and engage the lugs, a concavo-convex clamping plate having angularly bent ears to engage said lugs and notches, an adjustable member on the handle, an arm fixed to said member and with which one of said ears of the clamping plate is pivotally connected, a latch device on said adjustable member, a latch arm pivoted to the other ear of the clamping plate and adapted to engage said latch device, and means for adjusting said adjustable member.

4. A safety razor including a handle carrying a comb plate, a collar slidable toward and from said comb plate, spaced latch hooks on the collar, an arm carried by the collar, a clamping plate pivoted at one end to said arm, a second arm pivoted at one end to the free end of the plate and having a T-shaped free end to engage said hooks, and means for adjusting said sliding collar.

In testimony whereof I affix my signature in presence of two witnesses.

JACOB STIEGLITZ.

Witnesses:

ALONZO D. McMASTER,
T. J. HARKINS.