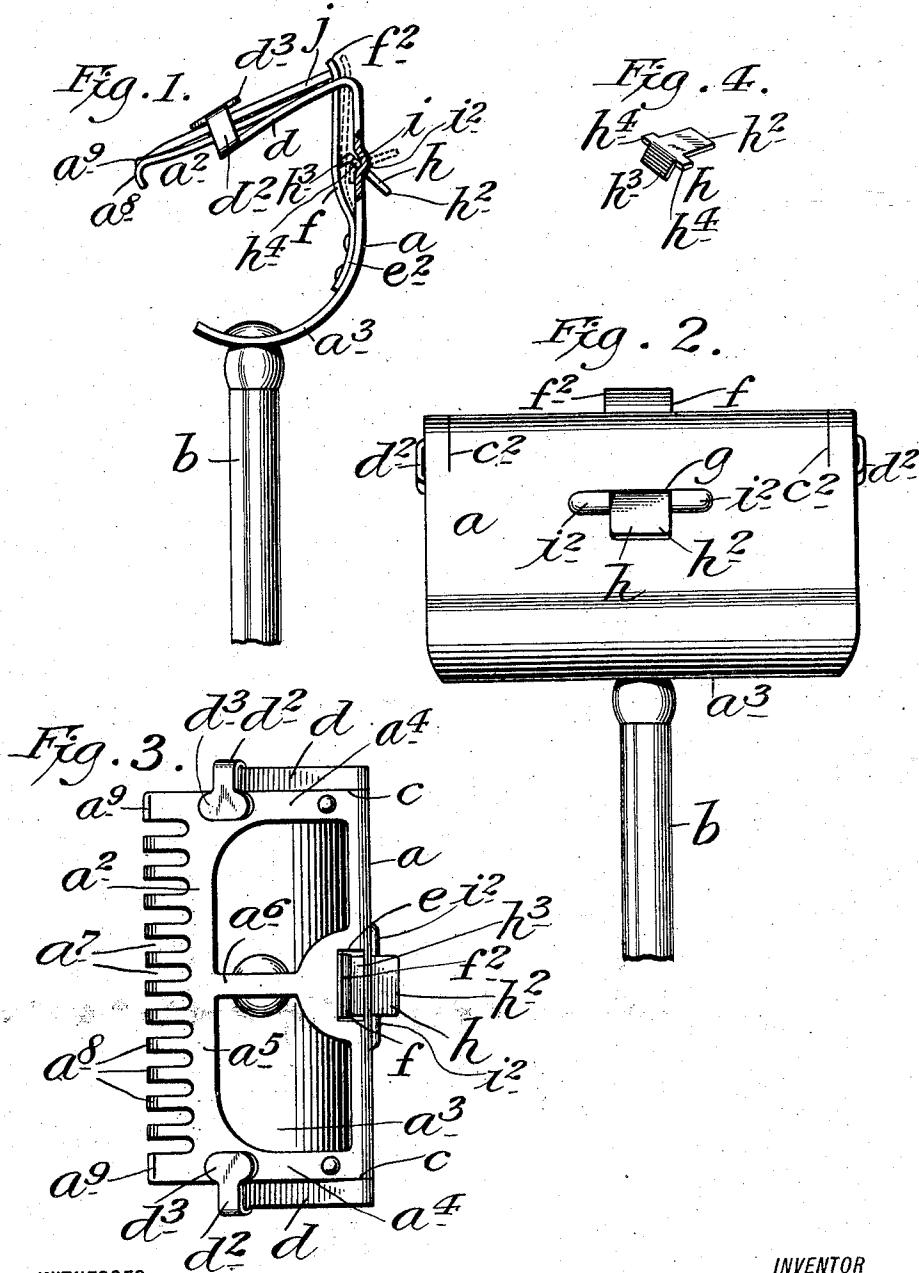


J. REICHARD.
SAFETY RAZOR.

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923,077.

Patented May 25, 1909.



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SAFETY-RAZOR.

No. 923,077.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOSEPH REICHARD, a citizen of the United States, and residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Safety-Razors, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

10 This invention relates to safety razors and particularly to means for holding the blade of a razor of this class in position on the frame, and the object thereof is to provide improved devices for this purpose whereby
15 the blade may be inserted into position, in the usual manner, and locked therein and easily removed when desired.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which:—

Figure 1 is a side view of a safety razor provided with my improvement, part of the construction being broken away, Fig. 2 a back
20 view of the device as shown in Fig. 1, Fig. 3 a plan view thereof with the blade removed, and:—Fig. 4 a perspective view of a detail of the construction forming part of my improvement.

In the accompanying drawing I have shown a safety razor frame of a well known form, comprising a back portion *a*, a front
35 portion *a'* and a handle attaching portion *a''*, and said frame is stamped from sheet metal, the front portion *a'* being at an acute angle to the back portion *a*, and the handle attaching portion *a''* being bent forwardly as clearly
40 shown in Fig. 1 and being provided with the usual handle *b*.

The front portion *a'* of the frame comprises, in the form of construction shown, parallel end portions *a''*, a front bar *a'''* and a
45 central transverse member *a''''*, and the front bar *a'''* is provided at the front edge thereof with transverse recesses *a'''''* forming a plurality of teeth *a''''''* which are backwardly
50 curved as shown in Fig. 1. The transverse end portions *a''* of the front part *a'* of the frame are split longitudinally as shown at *c* to form spring arms *d*, and the split at *c* extends backwardly and downwardly into the
55 back *a* of the frame as shown at *c'* in Fig. 2 so as to give a greater spring action to the spring arms *d*, and the said spring arms *d* are

provided at their forward ends with spring clips *d'* having clamp heads *d''* which overlap the end portions *a''* of the front part of the frame adjacent to or at the ends of the front
60 bar *a'''* of said part of the frame.

The front part *a'* of the frame is provided centrally of the back portion thereof with a longitudinal opening *e*, and secured centrally of the inner side of the back *a* of the frame
65 and adjacent to the handle attaching part *a''* thereof as shown at *e'* is a spring *f* which passes through the opening *e*, and the end of which is curved forwardly as shown at *f'*, and formed in the central portion of the back
70 *a* of the frame is a slot *g*, and I also provide a lock lever *h*, one end *h'* of which is passed outwardly through the opening *g* and the other end *h''* of which is bent at an angle to the end *h'* and bears on the back side of the
75 spring *f*, and said lock lever *h* is provided at its opposite sides and adjacent to the end *h''* thereof with lugs or projections *h'''* which bear in longitudinal grooves *i* in the back *a*
80 of the frame, said grooves being formed by stamping the back of said frame outwardly and forming ribs *i'* on the outer surface of the back *a* of the frame as shown in Figs. 1 and 2.

The normal position of the parts *f* and *h*, when the device is not in use, is that shown
85 in dotted lines in Fig. 1, and in preparing the device for use a blade *j* is passed downwardly and forwardly between the front part *a'* of the frame and the clamp heads *d''* of the spring arms *d*, and when the blade *j* has been
90 inserted into position the end *h''* of the lock lever *h* is forced downwardly into the position shown in full lines in Fig. 1, and the end *h''* thereof bears on the spring *f* and the outer
95 end of said spring is forced forwardly and bears on the back edge of the blade *j* as clearly shown in Fig. 1, and this locks the blade *j* in position and the device is ready for use.

The end teeth *a''''''* of the front part *a'* of the
100 frame are provided with raised stops *a'''''''* against which the edge portions of the blade *j* at the ends thereof strike when said blade is inserted into position as shown in Fig. 1, and these stops prevent the edge of the blade
105 from projecting beyond the desired point, and said stops also protect the face in the operation of shaving, from the corners of the blade.

The frame, comprising the parts *a*, *a'* and
110 *a''* may be made of any preferred material and in any desired manner, my invention

pertaining particularly to the lock spring *f*, the lock lever device *h* and the clamp heads *d*³, and the construction and operation thereof.

5 Having fully described my invention, what I claim as new and desire to secure by Letters Patent, is;—

1. A safety razor frame comprising a front, a back and a handle attaching part, the front
10 part being provided at its opposite ends with spring clamp devices between which and said part the blade is inserted, and the back of the frame being provided centrally of its inner side with a spring which is secured thereto
15 and which projects through the front of the frame at the back thereof and is adapted to bear on the back of the blade when the latter is in position, and a lock lever device movably mounted in the back of the frame and adapted
20 ed to operate on said spring.

2. A safety razor frame comprising a back,

a front and a handle attaching device, the front part being provided at its opposite ends with integral clamp devices between which and said part the blade is inserted, a spring se- 25 cured to the back of the frame and which projects through an opening in the front of the frame at the back thereof and is adapted to bear on the back of the blade when the latter is in position, and a lock lever device 30 pivoted in an opening in the back of the frame and adapted to be operated so as to force said spring forwardly.

In testimony that I claim the foregoing as my invention I have signed my name in 35 presence of the subscribing witnesses this 22nd day of June 1908.

JOSEPH REICHARD.

Witnesses:

A. R. APPLEMAN,
C. E. MULREANY.