

D. HEPP.
SAFETY RAZOR.

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1,055,039.

Patented Mar. 4, 1913.

Fig. 1.

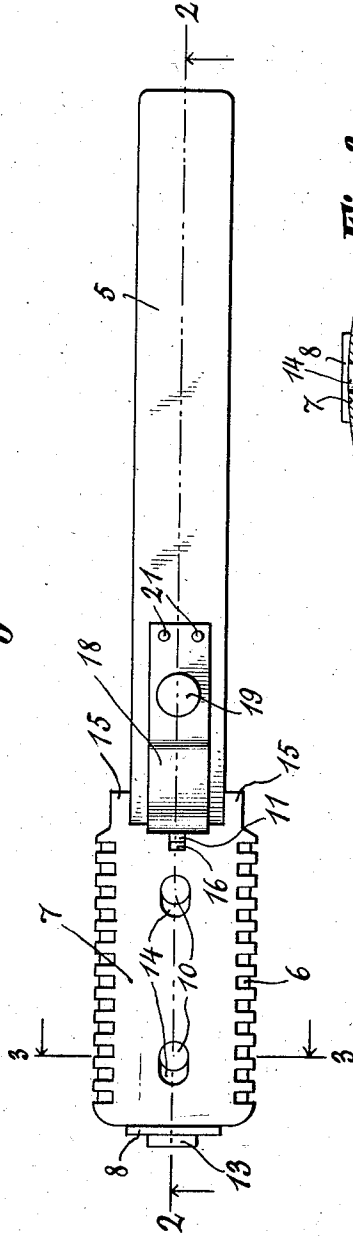


Fig. 3.

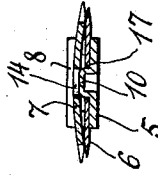


Fig. 2.

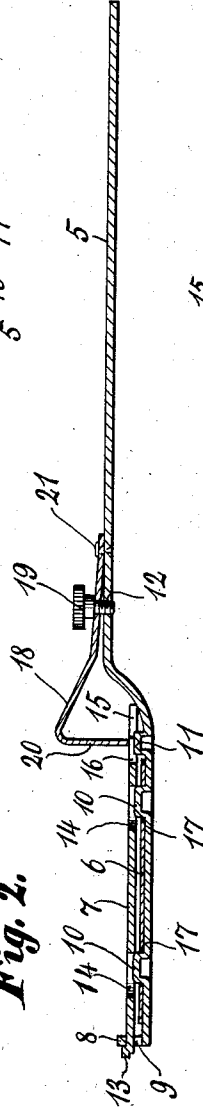
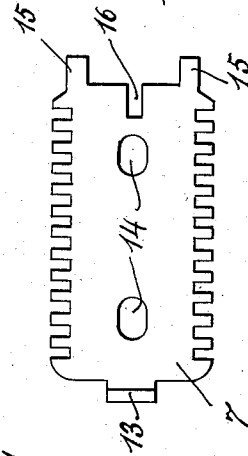


Fig. 4.



Witnesses
E. Larsson.

[Signature]

Daniel Hepp.

Inventor

By *W. H. Thompson*

Attorneys

UNITED STATES PATENT OFFICE.

DANIEL HEPP, OF CHICAGO, ILLINOIS.

SAFETY-RAZOR.

1,055,039.

Specification of Letters Patent.

Patented Mar. 4, 1913.

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To all whom it may concern:

Be it known that I, DANIEL HEPP, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Safety-Razors, of which the following is a specification.

This invention relates to that class of razors commonly known as safety razors, and its object is to provide a novel and improved holder for the blade, said holder being formed in one piece with a handle, and having means for clamping the blade, and the guard therefor, in operative position.

The invention also has for its object to simplify the structure and to reduce the number of parts to a minimum, and furthermore, to provide means for adjusting the tension of the blade.

With these objects in view, the invention consists in a construction and arrangement of parts to be hereinafter described and claimed, reference being had to the accompanying drawing, in which—

Figure 1 is a plan view of the razor complete; Fig. 2 is a longitudinal section on the line 2—2 of Fig. 1. Fig. 3 is a cross-section on the line 3—3 of Fig. 1. Fig. 4 is a plan view of the comb guard.

Referring specifically to the drawing, the handle 5 of the razor is a flat metal strip of suitable length having at one of its ends means for holding the blade 6 and the comb guard 7 for said blade. The other end of the handle is the grip. The first mentioned end of the handle terminates in an upward bend 8 at the base of which is a transverse slot 9, and said end of the handle also has two longitudinally spaced circular bosses 10, and to the rear thereof a rectangular boss 11. The grip portion of the handle has a threaded aperture 12 which is for a purpose to be presently described.

The guard 7 is a sheet metal plate, bowed transversely, and having its opposite longitudinal edges toothed as usual. The forward end of the plate has a tongue 13 which is bent upward and has a portion which is off-set above the plane of the body of the plate, and is adapted to be passed through the slot 9, and intermediate its ends, the plate has slots 14 adapted to receive the bosses 10, said slots extending in the direction of the length of the plate so that it may

be shifted forward and rearward for a purpose to be presently described. The rear end of the plate has two laterally spaced rearwardly projecting tongues 15, which latter, when the plate is in position on the handle, extend along the opposite longitudinal edges thereof. Between these tongues, the rear edge of the plate has a recess 16 conforming to the boss 11 and adapted to receive the same, whereby lateral play of the rear end of the plate is prevented. The tongue 13 prevents lateral play of the forward end of the plate.

The blade 6 fits between the guard plate 7 and the forward portion of the handle, and has two circular apertures 17 to accommodate the bosses 10.

That portion of the handle which carries the blade 6 and the guard plate 7 is bent downward from the grip portion of the handle as shown in Fig. 2.

To the forward end of the grip portion of the handle is secured at one of its ends a spring clamp 18, having an aperture through which passes a clamping screw 19, which is threaded into the aperture 12. The free end of the clamp is bent upward and then downward as indicated at 20 so that it may engage the top of the guard plate at its rear end and press it down on the blade 6. The clamp engages that portion of the guard plate having the recess 16, across which latter it extends, and also for a short distance on opposite sides thereof as clearly shown in Fig. 1. The screw 19 serves to regulate the pressure of the clamp on the guard plate. The clamp may be secured to the handle by rivets 21 struck up from the same.

In operation, the blade 6 is placed on the forward end of the handle 5 in such a position that the bosses 10 pass through the apertures 17. The guard plate 7 is put in position by first slipping the tongue 13 through the slot 9, after which the plate is swung toward the blade and pressed down until the end 20 of the clamp 18 snaps over the same, the boss 11 entering the recess 16. The screw 19 may now be operated to give the blade the desired tension by varying the pressure of the clamp on the guard plate. For a close shave, the guard plate is pulled rearward so that the tongue 13 comes into the slot 9, and the screw 19 is then screwed down to get more pressure. This will cause

a tighter pressure on the blade and produce a slight curvature thereof transversely. To remove the blade, the clamp 18 is pressed back off the guard plate, and the latter is
 5 swung upward by pressing upward on the tongues 15, after which the plate can be entirely removed by slipping the tongue 13 out of the slot 9, whereupon the blade is released so that it may now be removed.

10 The hereindescribed operations can be easily and quickly effected, and as the parts are few and simple, there is nothing to get out of order. The device can be easily and cheaply manufactured, and it effectually
 15 serves the purpose for which it is designed.

The preferred embodiment of the invention has been shown, but it will be evident that various minor changes in the structural details may be made without departing
 20 from the spirit and scope of the invention.

I claim:

1. A safety razor comprising a handle having a slot in its forward end and pro-
 25 jections; a blade, a guard plate on the blade, said guard plate being curved transversely and having a tongue at its forward end passing through the slot of the handle, said tongue having a portion which is off-set
 30 from the guard plate, and said guard plate having apertures to receive the projections, and being adjustable lengthwise to place the aforesaid off-set portion of the tongue into

the slot of the handle, and clamping means engaging the rear end of the guard plate. 35

2. A safety razor comprising a handle having projections at one of its ends, a blade, a transversely curved guard plate having apertures to receive the projections, said guard plate being adjustable length-
 40 wise, means controlled by the lengthwise adjustment of the guard plate for varying the tension thereof, means for clamping the guard plate down on the blade, and means
 45 for varying the tension of said clamping means.

3. A safety razor comprising a handle having an upward bend at its forward end and a slot at the base of said bend, and pro-
 50 jections, a blade, a guard plate on the blade, said guard plate being curved transversely and having a tongue at its forward end passing through the slot of the handle, said tongue having a portion which is off-set
 55 from the guard plate, said guard plate also having apertures to receive the projections, and being adjustable lengthwise to place the off-set portion of the aforesaid tongue into the slot of the handle, and clamping means
 60 engaging the rear end of the guard plate.

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

DANIEL HEPP.

Witnesses:

JACOB T. KINZIG,
 ART DIERSSEN.