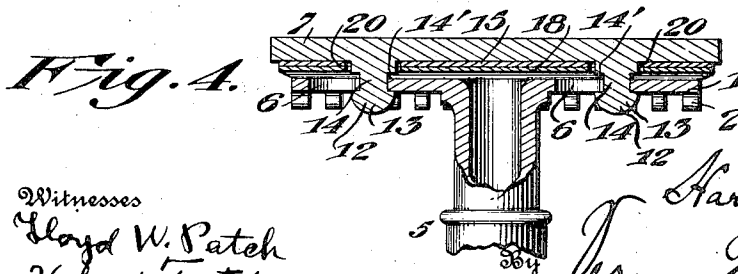
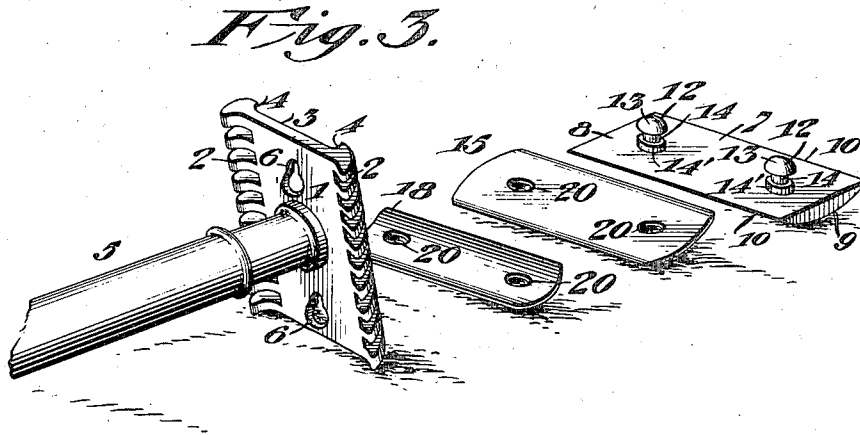
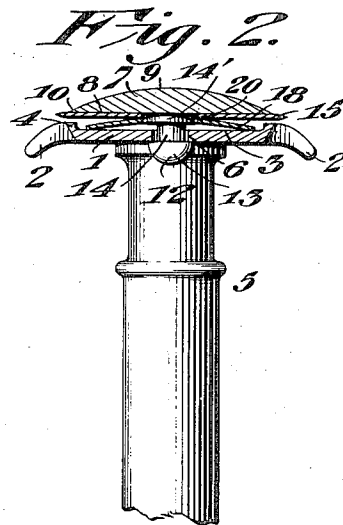
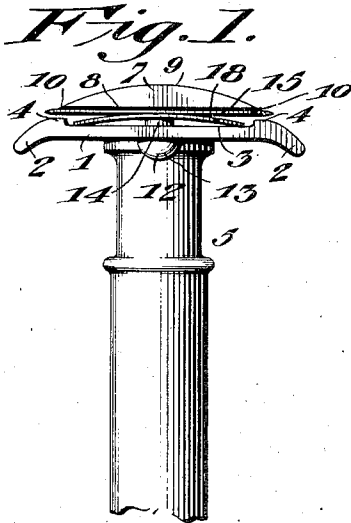


H. HESS.
SAFETY RAZOR.
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1,024,402.

Patented Apr. 23, 1912.



Witnesses
Lloyd W. Patch
Helen Tate

Inventor
Harry Hess
Armand E. Kozel
Attorney

UNITED STATES PATENT OFFICE.

HARRY HESS, OF FRANKFORT, GERMANY, ASSIGNOR TO HERMAN STRAUSS, OF NEW YORK, N. Y.

SAFETY-RAZOR.

1,024,402.

Specification of Letters Patent.

Patented Apr. 23, 1912.

Application filed October 11, 1910. Serial No. 586,480.

To all whom it may concern:

Be it known that I, HARRY HESS, a subject of the Emperor of Germany, residing at Frankfort, in the Province of Hesse-Nassau and Empire of Germany, have invented certain new and useful Improvements in Safety-Razors, of which the following is a specification.

My invention relates to an improvement in safety razors and the object is to provide a device of the character described comprising few and simple parts easy and quick to assemble and effective in operation.

With these objects in view this invention comprises a guard, a handle made in one piece, the guard provided with keyhole slots in combination with a plate having studs thereon, a razor blade having orifices to receive and fit the studs and a spring interposed between the plate and guard and also provided with orifices to receive the studs, whereby the several parts are assembled, properly gaged and detachably held together.

My invention further consists in certain novel features of construction and combinations of parts which will be hereinafter described and pointed out in the claim.

In the accompanying drawings Figure 1 is a view in end elevation. Fig. 2 is a transverse section. Fig. 3 is a view showing the parts dismembered and, Fig. 4 is a longitudinal, sectional view.

The numeral 1 represents the guard having the usual curved guard teeth 2, 2, at each edge. The center of the outer face of the guard is, preferably, depressed as at 3, leaving the raised ridges 4, 4, at each edge thereof with the outer surfaces of the curved guard teeth 2, 2, constituting a continuation. The handle 5 and the guard are made in one piece of metal. Keyhole slots 6, 6, are formed in the guard on opposite sides of the point where the handle joins it.

A bridge plate 7 is flat on one surface 8 and transversely convexed on the other surface 9, it being ground down to sharp edges 10, 10, and the width of the plate is, preferably, just sufficient to bridge over the depressed portion 3 of the guard and to approximately reach the bases of the curved guard teeth. This bridge plate is provided with two integral studs 12, 12, corresponding in position with the keyhole slots 6, 6.

These studs have enlarged rounded heads 13, 13, constricted necks 14, 14, approximately the same diameter as the width of the smaller portions of the keyhole slots and at the base of each stud a cylindrical shoulder 20, is formed adjacent to the plate.

The numeral 15, indicates the razor blade. This has the two orifices 16, 16, therein spaced apart and of a size to receive and fit the cylindrical shoulders 20 of the studs, so that the blade is gaged with respect to the other portions of the safety razor and held firmly against endwise or lateral movement by the shoulders of the studs. Superimposed upon the plate is a transversely curved spring 18, which also has orifices 19, 19, therein spaced apart and of a size to fit the shoulders 20, 20, of the studs, the function of this spring being to hold the bridge plate yieldingly outward from the guard so that the studs hold the parts rigidly in place. So to assemble the parts, when the blade and spring shall have been threaded upon the studs, the studs are placed opposite the enlarged ends of the keyhole slots and thus by pressing the bridge plate and guard slightly together, and moving the necks of the studs into the smaller ends of the keyhole slots, the parts are quickly assembled and locked together. In this way a simple device is provided for utilizing standard makes of safety razor blades and by reason of the construction set forth the parts are easily and quickly separated and detached to enable the user to remove and substitute a new blade or clean the parts without the necessity of removing the handle from the guard.

The curvature of the teeth and outer surface 8 of the bridge plate are in the same or approximately in the same arc of a circle, thus presenting a smooth and practically unbroken surface between the parts of which the two edges of the blade protrude, thus precluding the possibility of cutting, scraping, or irritating the skin in the process of shaving.

It is evident that more or less slight changes might be resorted to in the form and arrangement of the several parts described without departing from the spirit and scope of my invention and hence, I do not wish to limit myself to the exact construction herein set forth but,

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

5 A safety razor comprising a handle and guard, the guard provided with a depression at the edges of which ridges are formed, the guard also provided with key-hole slots extending lengthwise thereof, a spring adapted to fit within the depression, a blade
10 adapted to bridge across the depression and bear against the center of the spring, and a

bridge plate having studs which extend through the orifices in the blade, spring and guard, and which are adapted to move endwise therein whereby to hold the parts assembled.

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

HARRY HESS.

Witnesses:

JEAN GRUND,
CARL GRUND.