C. W. LEVALLEY.

SAFETY RAZOR.

APPLICATION FILED NOV. 24, 1908.

949,542.

Patented Feb. 15, 1910.

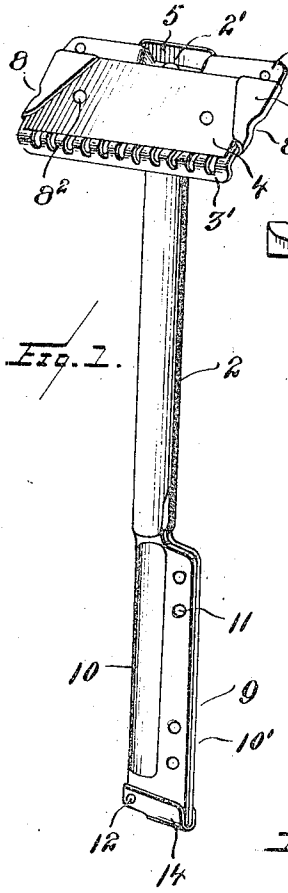

Fig. 1.

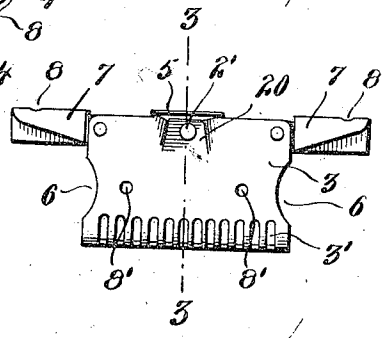

Fig. 2.

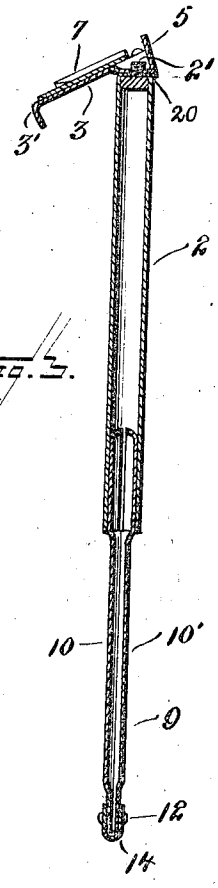

Fig. 3.

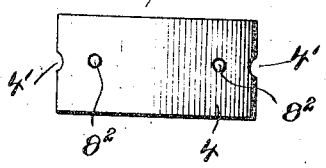

Fig. 5.

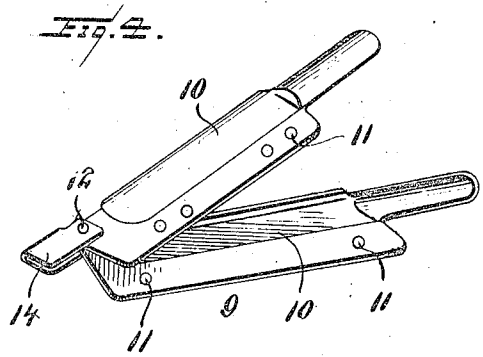

Fig. 4.

Fig. 6.

Witnesses

W. F. Hoge.

L. C. Brady.

Inventor

Christopher W. Levalley

By J. S. Barker

his Attorney

UNITED STATES PATENT OFFICE.

CHRISTOPHER W. LEVALLEY, OF MILWAUKEE, WISCONSIN.

SAFETY-RAZOR.

949,542. Specification of Letters Patent. Patented Feb. 15, 1910.

Application filed November 24, 1908. Serial No. 464,276.

To all whom it may concern:

Be it known that I, CHRISTOPHER W. LEVALLEY, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Safety-Razors, of which the following is a specification.

My invention relates to a safety razor and stropping device, and has for its object to produce a razor of this type having novel means for positioning the blade upon the supporting plate or base and there holding it securely, and a device connected to the razor adapted to hold the blade for stropping, all of the parts of which article are adapted to be taken apart and compactly arranged for carrying.

Referring to the drawings—Figure 1 is a perspective view of the razor and blade holder. Fig. 2 is a top plan view thereof, the razor blade being removed and the blade clamps extended. Fig. 3 is a central longitudinal section on the line 3—3 of Fig. 2. Fig. 4 is a perspective view of the stropping device in open position. Fig. 5 is a plan view of the razor blade, detached. Fig. 6 is a cross sectional view of one of the pivoted blade clamps.

In the drawings, 2 indicates the razor handle preferably of tubular construction and having at its upper end a projecting screw-threaded pin 2′, adapted to engage with the blade support or holder 3. This comprises a flat plate provided with a suitable guard 3′ along its front edge which may be formed by bending the plate at right angles and providing the bent edge with slots or apertures. The metal of which the supporting plate 3 is made, is formed, preferably by pressing, to have an outward extending boss or projection 20, and a corresponding recess or socket on the inner side. In the wall of this socket is formed a screw-threaded aperture to receive the pin 2′ of the handle.

A flange 5, constituting a finger rest and a guard for the rear or unused edge of the razor blade, extends along the edge of the boss 20 and preferably extends a little beyond the surface of the blade holder. By thus forming the blade holder the pin 2′ of the handle is prevented from coming into contact with the razor blade 4 when in place upon the holder 3 even though its end projects some distance beyond the socket wall. The holder plate 3 is also recessed at its opposite ends, as at 6, 6, so that the blade may be easily grasped and removed or replaced when desired.

The blade securing means comprise a pair of swinging clamps 7, 7, pivoted to the opposite upper or rear corners of the holder 3. Each clamp preferably consists of a piece of metal folded on itself and adapted to be swung into the position indicated in Fig. 1 where it clasps the holder 3 and blade 4 that may be placed thereon between its two oppositely disposed portions. Along the folded edge of each clamp there is an inward projecting lug 8 adapted to register with a notch 4′ on the end of the razor blade 4, and thus position and hold the blade. In order to further assist and insure that the blade shall occupy exactly the proper position on the holder, I prefer to provide it and the plate on which it rests with some sort of interlocking means, such as depressions 8′, 8′, in the plate 3 and projections or studs 8^2, 8^2, in the blade 4. It is obvious that other forms of interlocking means might be used. It will thus be seen that by forming the plate 3 with a guard having a continuous bar along its lower edge and the flange 5 on its upper or rear edge, the plate or blade holder is stiffened longitudinally, while the clamps 7, 7, operate to stiffen the plate transversely or along its opposite sides.

The stropping device or holder for the blade while being stropped is indicated at 9. It comprises a pair of plates 10, adapted to hold the razor blade between them and provided with locking devices 11 to engage with the locking studs 8′ on the blade. The two plates are hinged together at their outer ends, as indicated at 12. The opposite or inner ends are shaped into a sort of handle that is adapted to be inserted into the outer open end of the razor handle 2.

In order to securely grasp the blade between the clamping plates 10, I prefer to provide a swinging clasp 14, pivotally mounted on the outer end of one of the plates. The clasp 14 is preferably of U-shape in cross section and when swung into position firmly holds the two clamping plates between its parallel sides.

What I claim is:

1. In a safety razor, the combination of a blade holder provided with a guard and having a flat face on which the razor blade may rest, recessed at its ends, a removable blade arranged to be supported on said

holder and provided with notches in its ends, and swinging clamps for holding the blade in position, carrying means for engaging with the notches in the blade, substantially as set forth.

2. In a safety razor, the combination with a blade holder recessed at its opposite ends, of a removable blade mounted thereon, a handle, swinging clamps, and registering means on said clamps and blade for holding the latter in position, substantially as set forth.

3. In a safety razor, the combination of a blade holder recessed at its opposite ends, a removable blade supported on said holder, a pair of swinging clamps, and means on said clamps for engaging with the blade to hold it in position, substantially as set forth.

4. In a safety razor, the herein described blade support formed of thin metal, having an upper face upon which the razor blade may rest and formed with a guard along its front edge and with an outward extending hollow boss or projection near its rear edge, substantially as, and for the purposes set forth.

5. In a safety razor, the herein described blade support formed of thin metal having an upper face upon which the razor blade may rest and formed with a guard along its front edge, an outward extending hollow boss or projection near its rear edge, and a flange along the edge of the support in rear of the said boss.

6. In a safety razor, the herein described blade support formed of thin metal, having along its front edge a guard and near its rear edge an outward extending hollow boss, the wall of which is perforated for the attachment of the handle, means for holding the blade upon the support, and a handle detachably secured to the boss of the support.

CHRISTOPHER W. LEVALLEY.

Witnesses:
WM. C. FRYE,
WM. W. COCHRANE.