June 26, 1928. 1,675,128

H. OSTROVSKY

SAFETY RAZOR

Filed March 9, 1926

Fig.1.

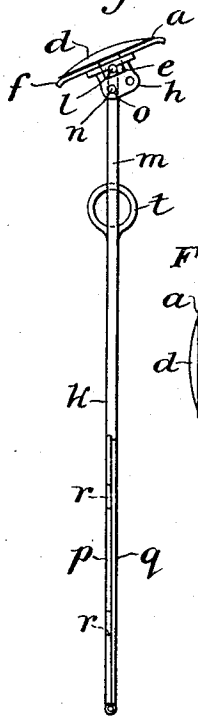


Fig.2.

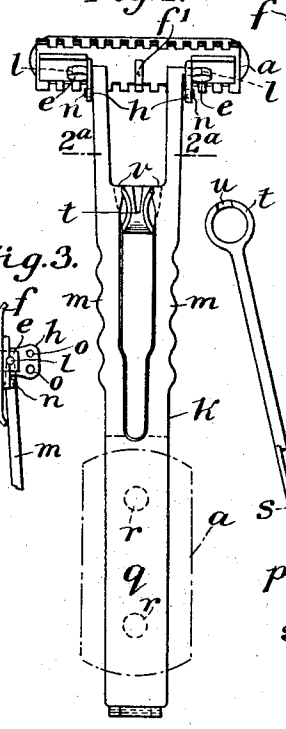


Fig.4.

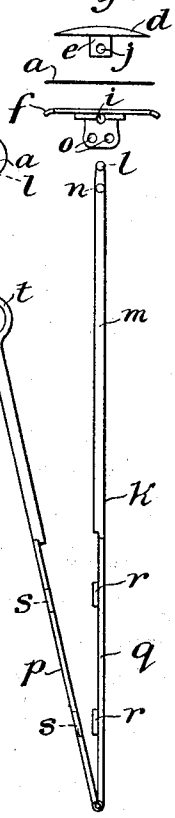


Fig.5.

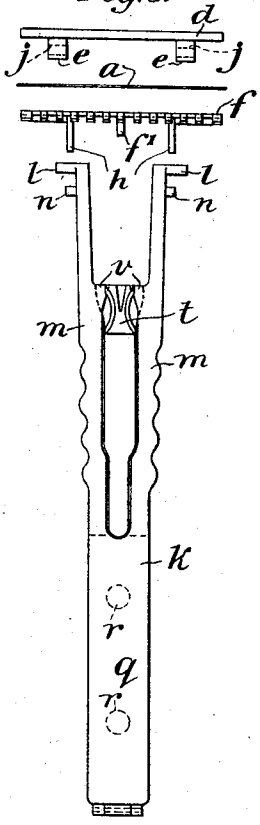


Fig.3.

Fig.2a.

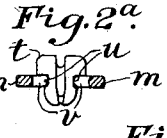


Fig.6.

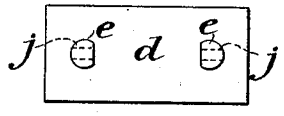


Fig.9.

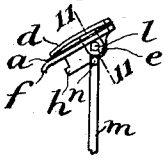


Fig.11.

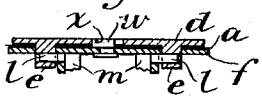


Fig.7.

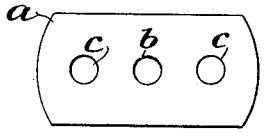


Fig.10.

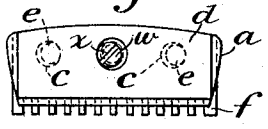
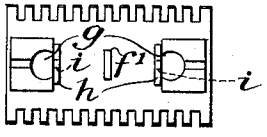


Fig.8.



Inventor:
Harry Ostrovsky
By George A. Prevost
Atty

Patented June 26, 1928. 1,675,128

UNITED STATES PATENT OFFICE.

HARRY OSTROVSKY, OF BAYSWATER, LONDON, ENGLAND.

SAFETY RAZOR.

Application filed March 9, 1926. Serial No. 93,497, and in Great Britain September 24, 1925.

My invention relates to safety razors of the kind in which a single or double blade is held between upper and lower clamping plates secured by a bifurcated handle, the limbs of which engage with studs on the said upper clamping plate.

According to the invention I provide a safety razor of the kind referred to, wherein means are provided to enable the angle of the blade to be adjusted relatively to the handle.

In a suitable arrangement for carrying out the invention the lower part of the handle is made flat and the upper part thereof is made of spring metal of "hair pin" or bifurcated shape, either with the limbs integral, or pivoted together with a spring to force them apart, the two ends having lateral projections some of which are sprung into holes, grooves, slots or recesses provided in the studs of the upper clamping plate and in lugs or projections from the lower clamping plate. Other holes or the like are arranged in the said lugs with which other projections on the limbs of the handle can engage so that the cutting edge of the single edged blade or either edge of the double edged blade may be brought to the correct shaving angle relatively to the handle.

The handle being of flat shape cannot rotate in the hand so that the correct position of the blade on the face can be maintained in a better manner than with the usual round handle.

To allow of stropping the blades, the handle is formed at its lower end into two clamping parts connected by a hinge joint to receive a razor blade between them, one member or part having studs to pass through the holes in the blade and into holes or recesses in the other member, and the blade being held with its edges parallel to the longitudinal edges of the handle. The two clamping members of the handle are locked together by a head, button or the like on one member snapping into engagement with and between the limbs at the upper part of the handle. This head or button also acts to spread the limbs of the handle when engaged with the blade for shaving so as to lock the handle securely in this position.

The holes or slots in the blades may be made to fit the studs or projections on the upper clamping plate loosely, an eccentric pin pivoted at the centre of one of the clamping plates, fitting into the usual hole at the centre of the blade. The position of the cutting edge or edges of the blade in relation to the guard or teeth on the lower clamping plate may be varied by rotating the eccentric pin, say, by means of a screwdriver applied to a nick formed in either end of the said pin.

To enable the invention to be fully understood I will describe it by reference to the accompanying drawing, in which:—

Figures 1 and 2 are elevations at right angles of a safety razor provided with a double edged blade, constructed in accordance with the invention with the blade in position for shaving.

Figure 2^a is a section on the line 2^a—2^a, Figure 2.

Figure 3 is a view similar to Figure 1, with the blade turned relatively to the handle when not required for use.

Figures 4 and 5 are views corresponding with Figures 1 and 2 but showing the parts separated.

Figures 6, 7 and 8 are views, respectively, of the upper clamping plate, a razor blade and the lower clamping plate or guard.

Figure 9 is a view similar to Figure 1, showing the razor provided with a single edged blade and illustrating the method of adjusting the cutting edge of the blade relatively to the lower clamping plate or guard.

Figure 10 is a plan view of the arrangement illustrated in Figure 9 and

Figure 11 is a section on the line 11—11, Figure 9.

Referring to Figures 1 to 8, *a* is the razor blade of the known form provided with the holes *b* and *c*, *c*. *d* is the upper clamping plate having the usual studs *e*, *e* designed to pass through the holes *c*, *c* of the blade and *f* is the lower clamping plate or toothed guard having the holes *g*, *g* for the reception of the studs when the blade *a* is arranged between the said two clamping plates.

h, *h* are the lugs which I form on the clamping plate *f* and which are provided with the aligned holes *i*, *i* and *j*, *j* are the holes which I form in the studs *e*, *e* and which align with the holes *i*, *i* when the members *d*, *a*, *f* are assembled for use as shown in Figures 1 and 2.

k is the handle of flat form having the bifurcation at its upper end, *l*, *l* being the projections at the upper ends of the limbs *m*, *m*, the said projections extending in opposite directons so that if the said limbs are moved

or pressed towards each other, the said projections, when the pressure is relieved, can be engaged with aligned holes *i*, *j* to secure the members *d*, *a*, *f* in their assembled position as indicated in Figures 1 and 2. To ensure the withdrawal of both projections *l* from the aligned holes *i*, *j*, a lug f^1 is arranged on the underside of the plate *f* to form an abutment for either limb *m* if the projection *l* on the other limb should stick in the holes *i*, *j*.

n, *n* are the additional projections formed on the limb *m*, *m* and *o*, *o* are the additional holes in the lugs *h*, *h* to receive the said projections so that the clamped blade *a* can be held at the required shaving angle relatively to the handle *k* as illustrated in Figures 1 and 2. Two holes *o* are shown in each lug *h* which enables the blade *a* to be secured at the required shaving angle for each of the cutting edges.

p, *q* are the two clamping portions hinged together of which the lower part of the handle *k* is formed, designed to receive a blade *a* between them as indicated by the dot and dash lines in Figure 2 for stropping purposes, *r*, *r* being the studs on one of the portions of the handle, which studs engage with the usual holes *c*, *c* of the blade and with corresponding holes or recesses *s*, *s* in the other portion of the handle. *t* is the head, button or the like on the member *p* designed, when in the clamping position, to snap into position between the limbs *m*, *m*, it being formed with recesses *u*, *u* which engage with ribs *v*, *v* on the limbs, as clearly indicated in Figure 2^a. This head or button also acts to spread the limbs *m*, *m* slightly to lock the handle *k* securely in position to the blade *a* and clamping plates *d*, *f*.

Referring to Figures 9 to 11, which show a safety razor provided with a single edged blade, *w* is the eccentric pin pivoted to one of the clamping plates. In the drawing, it is pivoted to the plate *f* and fits within the usual central hole *b* of the blade, the other holes *c*, *c* therein being made slightly larger than the studs *e*, *e*. By rotating the pin *w* it will be seen that the cutting edge of the blade will be advanced or retracted with respect to the guard or teeth on the plate *f*. *x* is a nick formed in one end of the pin *w* to allow of its rotation by a screw-driver.

Although the eccentric means for adjusting the blade are described in connection with a single edged blade it is to be understood that they are equally applicable to double edged blades.

Claims:

1. A safety razor comprising upper and lower clamping plates adapted to hold a blade therebetween, said plates having lugs depending therefrom, aligned openings formed in said lugs, a handle member, said handle member having projections extending in opposite directions to engage in the aligned openings, and means provided on said plates and said handle to vary the angle of said plates with respect to the handle.

2. A safety razor comprising upper and lower clamping plates adapted to hold a blade therebetween, said plates having lugs depending therefrom, aligned openings formed in said lugs, a handle member, said handle member having projections extending in opposite directions to engage in the aligned openings, a second series of openings formed in the lugs depending from said lower plate and a second set of projections on said handle member, said second set of projections being adapted to cooperate with said second series of openings to vary the angle of said plates with respect to the handle member.

3. A safety razor comprising upper and lower clamping members, a blade adapted to be held therebetween, said blades having openings therein to engage with corresponding studs formed on one of said clamping members, said openings being slightly larger than said studs to permit turning of the blade relatively to the clamping members, an eccentric pin pivoted to one of said clamping members and engaged with said blades, and means whereby said pin may be rotated to vary the position of said blade with respect to the lower clamping member.

HARRY OSTROVSKY.