Dec. 1, 1925.

1,563,724

R. J. CHRISTY

SAFETY RAZOR

Filed June 16, 1921

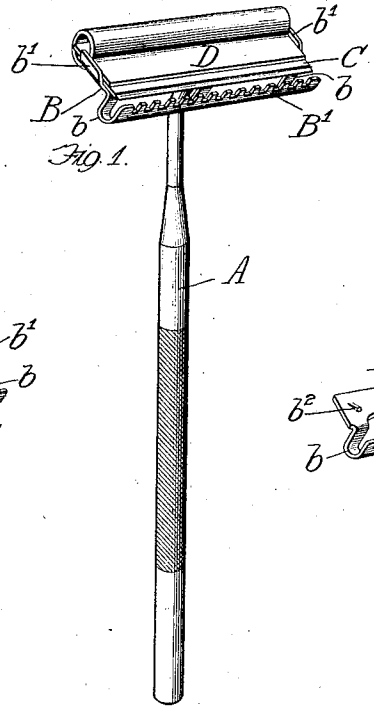

Fig. 1.

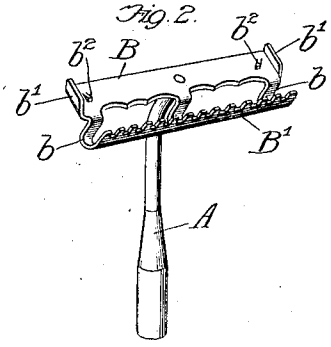

Fig. 2.

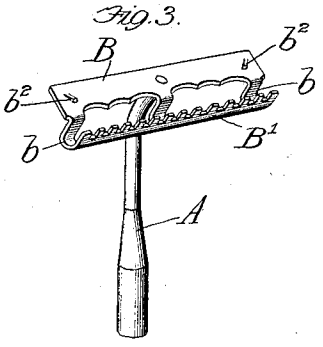

Fig. 3.

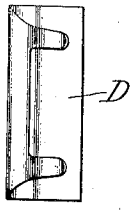

Fig. 4.

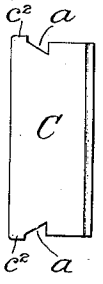

Fig. 5.

Witness
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By Watson, Coit, Morse & Grindle Attys.

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UNITED STATES PATENT OFFICE.

RUSS J. CHRISTY, OF FREMONT, OHIO, ASSIGNOR TO CHRISTY COMPANY, OF FREMONT, OHIO, A CORPORATION OF OHIO.

SAFETY RAZOR.

Application filed June 16, 1921. Serial No. 478,147.

To all whom it may concern:

Be it known that I, RUSS J. CHRISTY, a citizen of the United States, and resident of Fremont, Sandusky County, State of Ohio, have invented certain new and useful Improvements in Safety Razors, of which the following is a specification.

My invention relates to safety razors of the type of that shown in my prior Patent No. 853,960, dated May 21, 1907, and has for its object the provision of improved means for accurately positioning the blade on the holder and maintaining the same against movement relative thereto, and also to provide a particular form of blade for cooperation with such holder, all as hereinafter more particularly described in connection with the accompanying drawings, in which:

Figure 1 is a perspective view of a safety razor embodying my invention;

Figure 2 is a corresponding view of the blade-supporting plate and guard with the blade and spring-clip removed;

Figure 3 is a corresponding view of a modified form of blade-holder;

Figure 4 is a bottom view of the spring-clip for holding the blade in position on the holder; and

Figure 5 is a face or plan view of my novel form of blade adapted particularly for cooperation with the holder of Figure 2.

The same reference numerals are employed to indicate the corresponding parts in the several views.

Secured to the upper end of the handle A is the blade-supporting plate B provided at its forward edge with the integrally formed guard B′ connected with the body of the plate by the curved arms b, and provided at its opposite ends with the up-turned flanges b'; all as in the construction disclosed in my prior patent before referred to.

In assembling the parts of the razor for use the blade C is placed upon the blade-supporting plate B, with the ears c^2 at its upper rear corners in contact with the rear ends of the flanges b' on the plate B, and the spring-clip D is then slipped over the parts, as shown in Figure 1, to hold them in position. In the razor of my prior patent the cooperation of the ears c^2 on the blade with the flanges b' on the plate B was relied upon to position the blade upon the holder, but inasmuch as in such case the blade was held from outward or rearward movement on the holder solely by the frictional engagement of the parts produced by the pressure of the spring-clip D it was found that it would sometimes become displaced from position, and it is the object of my invention to prevent such accidental displacement of the blade from movement in either direction while held in place upon the holder by the spring-clip. For this purpose I have provided the blade-supporting plate B of the holder with two inclined or diagonally arranged lugs b^2, one near each of its ends, to cooperate with corresponding notches a, in the ends of the blade C, such notches having inclined inner walls corresponding to the inclined inner surfaces of the lugs b^2, and straight forward walls, parallel with the cutting edge of the blade, to cooperate with the shoulders formed by the forward ends of said lugs. The lugs b^2 may be formed in any suitable way, being shown in the present instance as struck up from the body of the plate B.

When the parts of my improved razor are assembled for use, with the blade C resting upon the supporting-plate B and held in place by the spring-clip D, with the notches a in its opposite ends engaging the lugs b^2, and its ears c^2 engaging the rear ends of the flanges b', the blade will be securely and positively held in position upon the holder, and be prevented from slipping in any direction.

I prefer to provide the blade-supporting plate B with the end flanges b', and the blade C with the ears c^2, for two reasons; in the first place they add to the security of the positioning of the blade upon the holder, and in the second place the provision of the ears c^2 upon the blade enables the latter to be used with the holder of the razor shown in my prior patent, as well as with the improved holder of the present application. Nevertheless, both the flanges b' of the holder and the ears c^2 of the blade may be omitted if desired and a holder such as that shown in Figure 3 be employed. In such case the engagement of the inclined inner walls of the notches in the ends of the blade with the inclined inner surfaces of the lugs on the holder will serve to prevent displacement of the blade in a forward direction, while the engagement of the straight

front walls of the notches in the blade with the shoulders formed by the front ends of the lugs will prevent displacement of it in a rearward direction.

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

1. In a safety razor, a blade-supporting plate having upturned flanges at its opposite ends and a lug adjacent each end, each of said lugs having an inclined inner wall and a front wall, a blade having projecting ears at its rear corners for cooperation with the upturned flanges on the blade-supporting plate, and having also a notch at each end, each of said notches having an inclined wall and a front wall for cooperation, respectively, with the inclined walls and front walls of the lugs on the blade-supporting plate, and means for holding the blade on said plate.

2. In a safety razor, a blade-supporting plate having a lug adjacent each end thereof, each of said lugs having a front wall extending parallel to one longitudinal edge of said plate and an inner wall inclined away from said front wall toward one end of said plate, each of said lugs being further provided with an outer surface inclined inwardly from the front wall thereof and merging in the outer surface of said plate.

3. In a safety razor, a blade-supporting plate having a lug adjacent each end thereof, each of said lugs having a front wall extending parallel to one longitudinal edge of said plate and an inner wall inclined away from said front wall toward one end of said plate, each of said lugs being further provided with an outer surface inclined inwardly from the front wall thereof and merging in the outer surface of said plate, and a blade having an angular notch at each end thereof to be engaged by one of said lugs, each of said notches having a front wall to engage the front wall of one of said lugs and an inner wall inclined away from the front wall of the notch toward the end of the blade to coact with the inclined inner wall of the adjacent lug.

4. In a safety razor, a blade supporting plate having a lug adjacent each end thereof, each of said lugs having a front wall or shoulder and also having an inner wall inclined away from said front wall toward one end of said plate, each of said lugs being further provided with an outer surface inclined inwardly from the front wall thereof and merging in the outer surface of said plate.

5. In a safety razor, a blade-supporting plate having a projecting lug adjacent each end thereof, each of said lugs having a front shoulder extending outwardly from said plate and having an outer surface inclined away from said shoulder and merging at the other end of the lug in the outer surface of said plate.

6. In a safety razor, a blade-supporting plate having a projecting lug adjacent each end thereof, each of said lugs having a front shoulder extending outwardly from said plate and having an outer surface inclined away from said shoulder and merging at the other end of the lug in the outer surface of said plate, flanges formed on said plate and extending outwardly therefrom at each end, and a blade adapted to slide between said flanges over said inclined surfaces of said lugs and having notches therein adapted to be engaged by said lugs when the blade reaches its operative position.

7. In a safety razor, a blade-supporting plate having a projecting lug adjacent each end thereof, each of said lugs having a front shoulder extending outwardly from said plate and having an outer surface inclined away from said shoulder and merging at the other end of the lug in the outer surface of said plate, flanges formed on said plate and extending outwardly therefrom at each end, and a blade adapted to slide between said flanges over said inclined surfaces of said lugs and having notches therein adapted to be engaged by said lugs when the blade reaches its operative position, said blade having lugs extending longitudinally therefrom to be engaged by said flanges.

8. A blade for a safety razor having at each end an edge extending rearwardly at right angles to the cutting edge thereof, each of said edges having a notch therein located rearwardly of said cutting edge, each of said notches having a wall extending substantially parallel with said cutting edge and an inclined wall extending rearwardly from said front wall to the adjacent edge of said blade, said blade being also provided with longitudinal projections at each of its rear corners extending beyond said edges.

In testimony whereof I hereunto affix my signature.

RUSS J. CHRISTY.