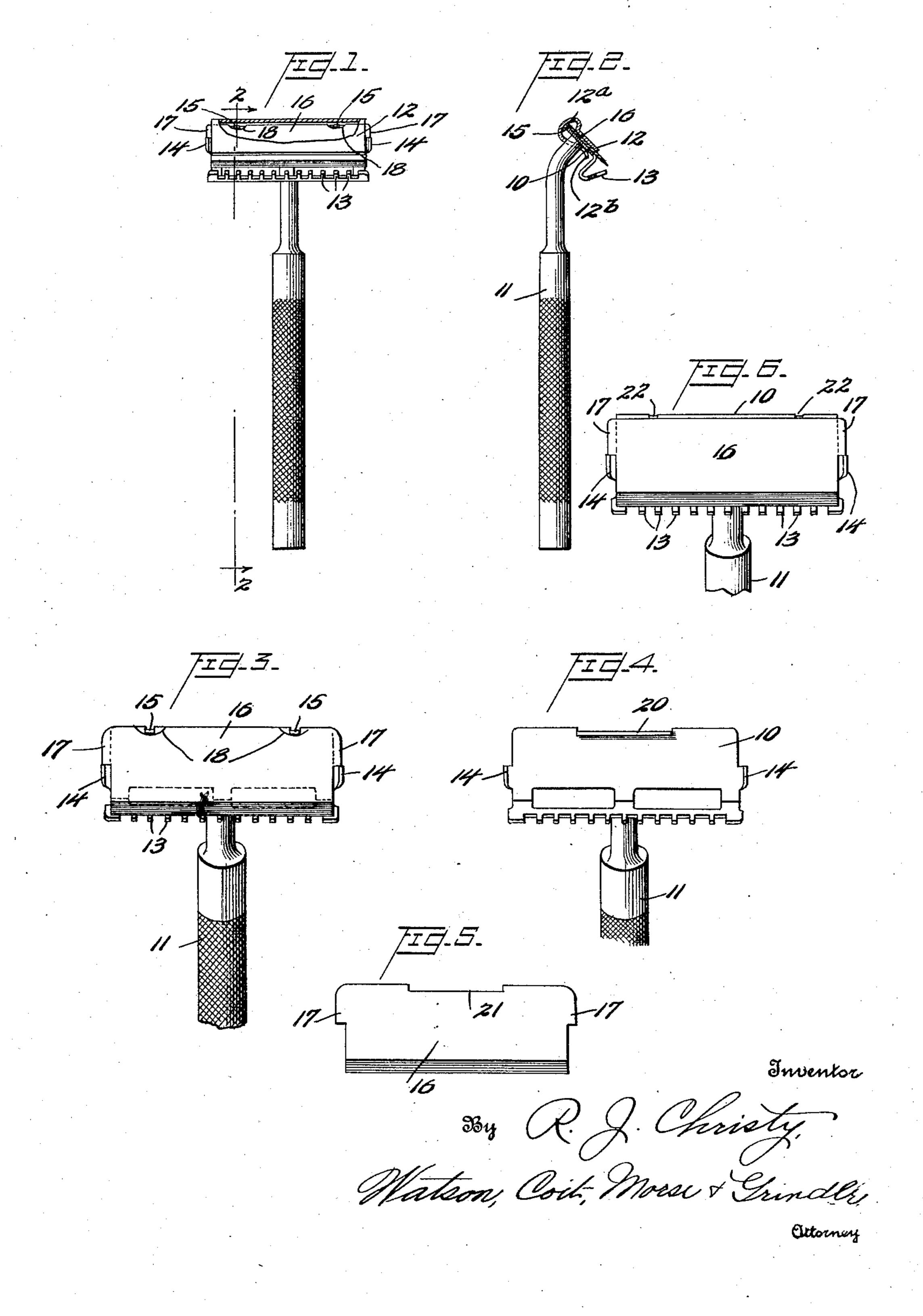
SAFETY RAZOR

Filed June 2, 1926



## UNITED STATES PATENT OFFICE

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SAFETY RAZOR

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particularly to razors of the type shown in appear. 5 improved razor of the type referred to and provided with two lugs 15 which are spaced 55 10 position desired for use and which also serve plate 10, the height of the lugs 15 preferably 60 withdrawn from the holder when the clamp ing the thickness of the blade. is removed.

15 going and other advantageous ends is illus- is provided at each end with ears 17, the 65

20 tion;

2—2 of Fig. 1;

holding clamp being removed and the parts notches 18 of the blade are so related that

blade being removed and a slightly modified rest against the bottoms of the notches 18.

so for use with the modified form shown in with ears 14 as in the other form, but in this 80 Fig. 4; and

reference characters thereon, the blade holder is adapted to cooperate with the lug 20. 10 plate 10 to which a handle 11 is rigidly se-plate 10 is made slightly wider than the blade 90 along one edge thereof, which will be termed ed to lie against the lugs 22, the blade also 95

This invention relates to safety razors and bly straight for a purpose which will later

my prior Patent No. 853,960, May 21, 1907. In one form of my invention, illustrated The object of my invention is to provide an in Fig. 3, the rear edge of the plate 10 is one in which the blade is clamped to the apart and also preferably formed by strikholder by means of a spring clamp, the holder ing up the metal of the plate. The lugs 14 having lugs which serve to accurately posi- and 15 it will be understood project upwardtion the blade and maintain it in the exact ly above the flat upper surface of the guard to prevent the blade from sliding off or being being substantially equal to and not exceed-

The blade 16, which is adapted for use The structure for accomplishing the fore- with the form illustrated in Figs. 1, 2 and 3, trated in the accompanying drawings, form- front edges of which are straight and which ing a part of this specification, and in which: are adapted to cooperate with the rear Figure 1 is a front elevation, partly broken straight edges of the lugs 14. On its rear away, of a structure embodying my inven- edge the blade 16 is provided with spaced notches 18 which are so arranged as to re- 70 Figure 2 is a transverse section on the line ceive the lugs 15 when the blade is placed on the guard plate. The lugs 14 and 15 on Figure 3 is a view similar to Fig. 1, the the guard plate and the ears 17 and the 25 being shown on a somewhat enlarged scale; when the blade is in position the ears 17 will 75 Figure 4 is a view similar to Fig. 1, the rest against the lugs 14, and the lugs 15 will

form of guard plate being shown; In the form illustrated in Figs. 4 and 5, Figure 5 is a plan view of a blade adapted the guard plate 10 is provided at its ends arrangement the rear side of the guard plate Figure 6 is a further modified arrange- is provided with a single upstanding lug 20 ment similar to Fig. 3, the guard plate ex- in place of the two lugs 15 in the first mentending slightly beyond the rear edge of the tioned form. The blade 16 for use with the 55 blade and having lugs to cooperate with the form shown in Fig. 4 is also provided with 85 rear edge of the blade which is straight. ears 17 at its ends, but its rear edge is pro-Referring to the drawings in detail by the vided with a single notch or recess 21 which

of my improved razor comprises a guard In the form illustrated in Fig. 6, the guard cured, and a substantially U-shaped spring and two lugs 22 are struck up from the rear clamping plate 12 which is adapted to hold a edge of the plate. In this form the rear blade on the guard plate. The upper surface edge of the blade is made straight or withof the guard plate 10 is preferably flat and out notches, such straight edge being adaptthe front edge, this plate is provided with being provided with end ears 17 which are guard teeth 13. At each end the guard plate adapted to lie against the lugs 14 on the 10 is provided with lugs 14 preferably formed guard plate. It will be understood that the by striking up the metal of the plate. The lugs 22, like the lugs 15 and 20, project above 50 rear edge of each of these lugs 14 is prefera- the upper surface of the plate 10 a distance 100 substantially equal to the thickness of the blade 16.

of my invention the clamping plate 12 has an upper portion which is adapted to overlie a blade placed on the guard plate 10, this plate at its rear being provided with an upwardly and downwardly curved portion 12<sup>a</sup> which terminates in spring arms 12<sup>b</sup> adapted the plate, and also hat the guard plate is removable by merely sliding the same rearwardly off of the guard plate.

by Letters Patent is:

1. The combination a guard plate having edge thereof, and have face, said plate adjace the plate, and also hat at its rear edge the late upper surface of the stantially equal to the a blade mounted on

Referring to the form shown in Fig. 3, it 15 will be seen that when a blade is placed on the guard plate 10, the lugs 14 and 15 cooperate with the ears 17 and notches 18 of the blade and serve to very accurately position the cutting edge of the blade with ref-20 erence to the guard teeth and when the clamping plate 12 is applied the blade 16 will be very securely held in position, it being impossible for the same to move forward toward the guard teeth or rearwardly there-25 from, with the result that the cutting edge of the blade is maintained in the position desired. In the form shown in Figs. 4 and 5, the parts operate in a similar manner, the lugs 14 and 20 cooperating respectively with 30 the ears 17 and the notch 21 to maintain the blade in position. In the form shown in Fig. 6, the lugs 14 and 22 on the guard plate cooperate respectively with the ears 17 and the rear edge of the blade to accurately po-35 sition and hold the blade.

In addition to the advantages of my improved structure already indicated, it possesses a further and very important advantage. In the form of razor shown in my 40 prior patent above mentioned, it has been found that when the clamping plate is withdrawn or slipped off rearwardly from the guard plate, it frequently happens that the blade is also withdrawn from the holder with the result that the blade may fall to the floor and be injured or broken or sometimes the user is cut in trying to catch the blade as it falls. With my improved arrangement, the rear lugs 15, 22 or 20 will serve 50 to prevent the blade from sliding off the guard plate 10 when the clamp 12 is withdrawn and the difficulty above mentioned is therefore obviated as the blade remains on the guard plate when the clamping plate is 55 removed. Also the lugs at the rear of the guard plate being of a height substantially equal to or not exceeding the thickness of the blade, do not interfere with the free rearward movement of the clamping plate 60 in withdrawing the same from the guard plate.

Changes may, of course, be made in the details of the foregoing structure without departing from the spirit of the invention as covered by the appended claims.

Having thus described the invention, what is claimed as new and desired to be secured by Letters Patent is:

1. The combination in a safety razor, of a guard plate having guard teeth along one 70 edge thereof, and having a flat upper surface, said plate adjacent each end having a lug extending above the upper surface of the plate, and also having one or more lugs at its rear edge the latter extending above 75 the upper surface of the plate a distance substantially equal to the thickness of the blade, a blade mounted on said plate, said blade having an ear at each end formed with an edge adapted to engage said end lugs on the 80 guard plate and said blade also having a rear edge adapted to engage said rear lugs on the guard plate and a removable spring clamping plate having a flat portion engaging said blade and having a curved por- 85 tion extending around the rear of said guard plate and engaging the lower surface there-

2. The combination in a safety razor, of a guard plate having guard teeth along one edge thereof, and having an upper bladereceiving surface, said plate adjacent each end having a lug extending above the upper surface of the plate, and also having a plurality of lugs at its rear edge, the last 05 named lugs extending above the upper surface of the plate a distance not exceeding the thickness of the blade, a blade mounted on said plate, said blade having an ear at each end formed with an edge adapted to engage 100 said end lugs on the guard plate and said blade also having a rear edge adapted to engage said rear lugs on the guard plate and a spring clamping plate having a portion engaging said blade and extending around the rear of said guard plate and engaging the lower surface thereof, said clamping plate being movable from said guard plate and blade by withdrawing the same rearwardly.

In testimony whereof I hereunto affix my signature.

RUSS J. CHRISTY.

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