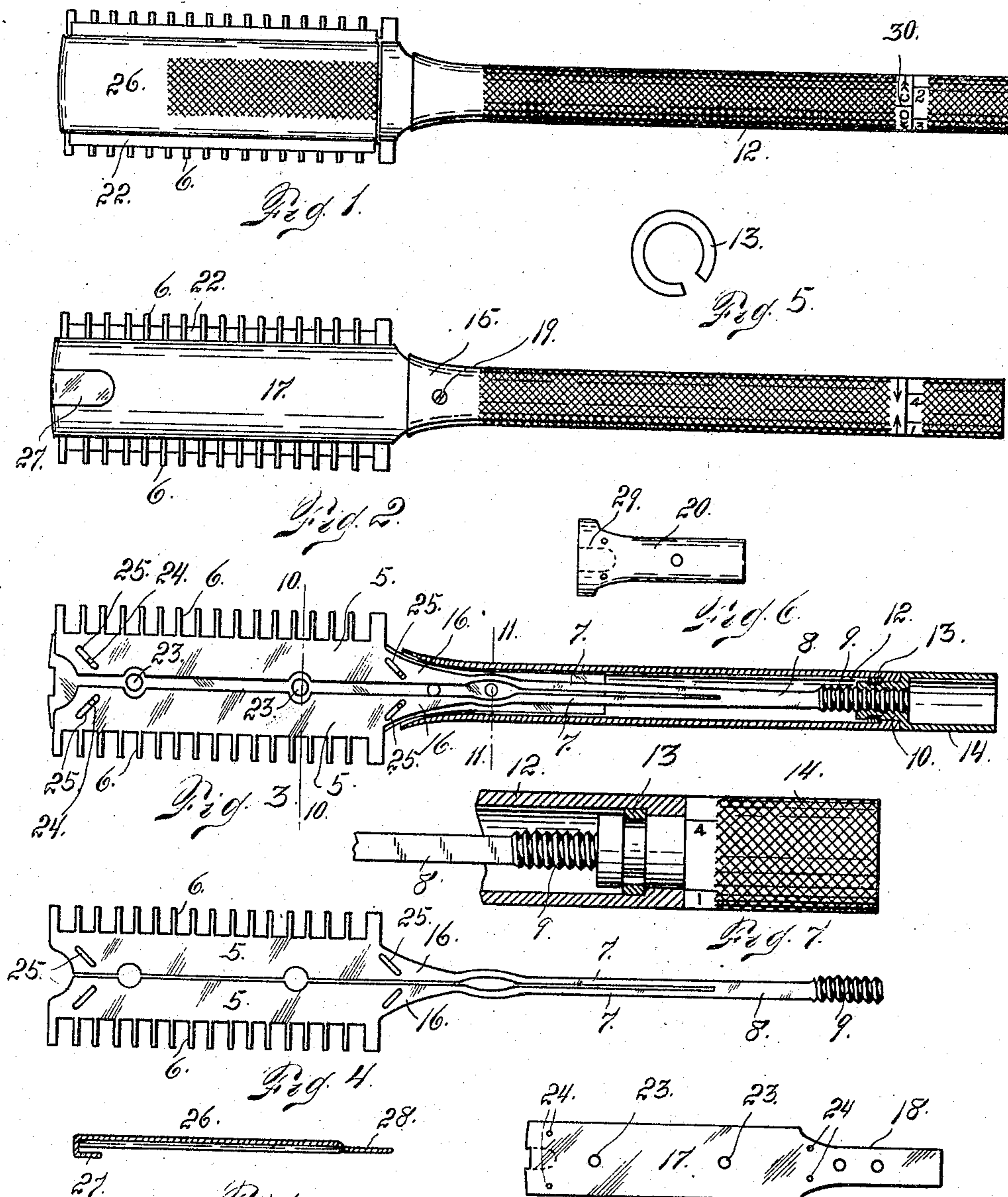


J. J. MEEHAN.
SAFETY RAZOR.
APPLICATION FILED MAY 25, 1908.

919,910.

Patented Apr. 27, 1909



Witnesses

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SAFETY-RAZOR.

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To all whom it may concern:

Be it known that I, JOHN J. MEEHAN, a citizen of the United States, residing in the city and county of Denver and State of Colorado, have invented certain new and useful Improvements in Safety-Razors; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in safety razors.

My improvements relate more particularly to the adjustment of the guard members of a razor of the class set forth in my previous patents numbered 835077 and 856172, and dated Nov. 6th, 1906 and June 4th, 1907, respectively.

In my improved construction two guard members are employed, both, however, being connected with a single stem which is slotted in line with the division between the two members. The outer extremity of this stem is threaded to engage a nut swiveled within the outer portion of the handle, the nut being provided with a protruding member which extends beyond the outer extremity of the handle and engages the same. By operating this rotary nut member, the two guard members may be actuated longitudinally. Connected with the handle and forming an extension of the same, is a plate having pins entering inclined slots formed in the guard members, whereby as these guard members are moved longitudinally, the pins engaging the said slots, serve to throw the guard members inwardly and outwardly as may be desired whereby more or less of the opposite edges of the blade is exposed.

Another feature of my improved construction, consists in graduating the protruding portion of the rotary nut member and the adjacent portion of the handle, whereby the adjustment of the guards may be conveniently accomplished. For instance the handle member has a mark on one side of which is the letter C to indicate close and upon the other side the letter O to indicate open. The figures with which the protruding end member is provided, indicate the degree of rotary movement imparted to the nut and consequently the degree of longitudinal ad-

justment imparted to the guard members. When the user of the razor has once adjusted these guard members to suit, he will always be able to obtain the proper adjustment by imparting a corresponding degree of movement to the nut.

Having briefly outlined my improved construction, I will proceed to describe the same in detail reference being made to the accompanying drawing in which is illustrated an embodiment thereof.

In this drawing, Figure 1 is a top plan view of a safety razor equipped with my improvements, the backing plate being shown uppermost. Fig. 2 is a similar view showing the same in the reverse position with the backing plate lowermost. Fig. 3 is a view with the backing plate and blade removed, the handle being shown in section. Fig. 4 is a detail view of the guard members. Fig. 5 is a detail view of the expansion ring employed in connecting the adjusting nut with the handle. Fig. 6 is a detail view of a member connected with the handle on the backing plate side. Fig. 7 is an enlarged fragmentary view of the outer extremity of the handle showing the adjusting nut and its connection with the stem of the guard. Fig. 8 is a detail view of an extension member connected with the handle, and engaging the guard members on the opposite side from the blade. Fig. 9 is a sectional view of the backing plate which when the parts are assembled engages the blade on one side being the side opposite the guard members which also engage the blade. Fig. 10 is a cross section taken on the line 10—10 Fig. 3, showing all the parts in place. Fig. 11 is a cross section taken on the line 11—11 Fig. 3 showing all of the parts in place.

The same reference characters indicate the same parts in all the views.

Let the numeral 5 designate each of the two guard members whose outer edges are toothed as shown at 6. These guard members are provided with separated extensions 7 which merge at their outer extremities into a stem 8 having a threaded extremity 9 adapted to be engaged by a nut 10 swiveled in the outer extremity of the handle 12 by means of a spring ring 13, which engages circumferential grooves formed in the inner wall of the handle and the outer wall of the nut. This nut is provided with an extension member 14 which forms a continuation of the handle and is of the same size as the

latter, the shoulder of the nut member 14 engaging the outer end of the handle. It is evident that by turning the nut 10, which may be easily accomplished by the use of the milled extension 14, the guard members may be moved longitudinally in the handle.

The greater portion of the handle is cylindrical in shape. Its inner extremity 15, however, is somewhat flattened whereby its width is increased, to make room for the guard parts 16 which increase in width at the inner extremity of the handle. This handle is provided on one side with an extension member 17. This extension member has a reduced part 18 which enters the inner extremity of the body of the handle and is connected with the latter by a screw 19. On the opposite side of the guard stem from the reduced part 18 of the member 17, is a relatively short member 20, which is connected with the reduced part 18 by means of a screw 21.

The handle member 17 is provided with two studs or short pins 23 which enter counterpart openings formed in the blade 22. This member 17 is also provided with two pairs of relatively small pins 24, which engage slots 25 formed in the guard members 5 and inclined to the direction of the length of the guard members. Hence as the guard members are moved longitudinally or in the direction of the length of the handle, in the one direction or the other, these members will be moved apart or caused to approach each other as may be desired depending of course upon the direction of movement. The backing plate 26 engages the blade on the opposite side from the guard members and is provided at its outer extremity with a hook 27 which is of sufficient width to slip over the thickness of the blade, the guard members and the handle extension 17, the hook engaging a recess as shown in dotted lines formed in the last named handle member. When the back blade is put in place or moved to thrust the lip 28 into the recess 29 formed on the short handle member 20 the hook 27 is also made to engage the recess formed in the said blade.

The outer end of the handle is provided with a mark 30 upon one side of which the letter C is formed and on the opposite side the letter O. The extension member 14 of the nut 10, is provided adjacent the outer extremity of the handle with graduated marks designated 1, 2, 3 and 4 respectively. It may be assumed when the member 1 is in alinement with the indicating mark 30 of the handle member, that the guard members are in their normal position. Now if it be desired to separate these guard members for the purpose of concealing more of the blade, the nut will be turned in the one direction or the other. If it is desired to separate or open the guard members the nut will be

turned in the direction indicated by the arrow O. While if it is desired to close the guard members or bring them nearer together, the nut will be turned in the direction indicated by the arrow C.

Having thus described my invention, what I claim is:

1. A safety razor including a handle and two separated guard members having reduced separated extensions terminating in a stem whose extremity is threaded, and a nut swiveled in the handle and engaging the threaded portion of the stem, the portion of the handle engaging the guard members being provided with pins and the guard members with inclined slots, whereby as the nut is turned the guard members are moved longitudinally in the handle in the one direction or the other for the purpose of opening or closing the same as may be desired, substantially as described.

2. A safety razor, comprising a handle member and a flat extension, guard members engaging the flat extension of the handle member and having inclined slots engaged by pins with which the flat handle member is provided, the guard members having reduced parts protruding into the hollow of the handle and terminating in a threaded extremity, and a nut swiveled in the hollow handle and having a protruding extension for manipulating purposes whereby as the nut is turned, the guard members may be moved longitudinally of the handle for the purpose of separating them or causing them to approach each other as may be desired.

3. A safety razor including a hollow handle member and an extension member projecting beyond the hollow portion of the handle, separated guard members engaging the extension member, the extension handle member and the guard members being connected by pins and inclined slots whereby as the guard members are moved longitudinally of the handle they are caused to separate or approach each other, a nut connected in operative relation with the guard members whereby the latter may be moved longitudinally of the handle, the nut member protruding from the handle and being graduated with reference to an indicating mark formed on the handle to designate the degree of movement imparted to the guard members as the nut is rotated, substantially as described.

4. A safety razor comprising a handle having a hollow member, a plate connected with the hollow member, two separated guard members engaging the plate member, means for connecting the plate member and the guard member to cause the guard members to recede and approach each other as they are moved longitudinally upon the plate in the one direction or the other, the guard members being provided with extensions

protruding into the hollow handle member, their extremities being threaded, and a nut having a swiveled connection with the hollow handle member and engaging the threaded extremities of the guard extensions whereby as the nut is turned the guards may be moved longitudinally in either direction upon the said plate member for the purpose set forth.

- 10 5. In a razor, the combination of a hollow handle member, an extension plate member connected with the hollow handle member, two guard members mounted on the plate member and connected therewith to cause
15 the guard members to recede and approach each other as the guard members are moved longitudinally thereon in the one direction or the other, the guard members being pro-

vided with reduced extensions entering the hollow handle member and merging into an integral threaded extremity, and a nut swiveled in the hollow handle member and engaging the said threaded extremity of the guard extensions whereby as the nut is turned the guard members may be moved longitudinally in either direction, the said nut protruding beyond the hollow handle member and shouldered to engage the latter, substantially as described.

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

JOHN J. MEEHAN.

Witnesses:

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ALODIA HUTCHISON.