Sept. 29, 1953 J. M. AUSTIN 2,653,379

RAZOR AND BLADE CHANGER

Filed May 23, 1950

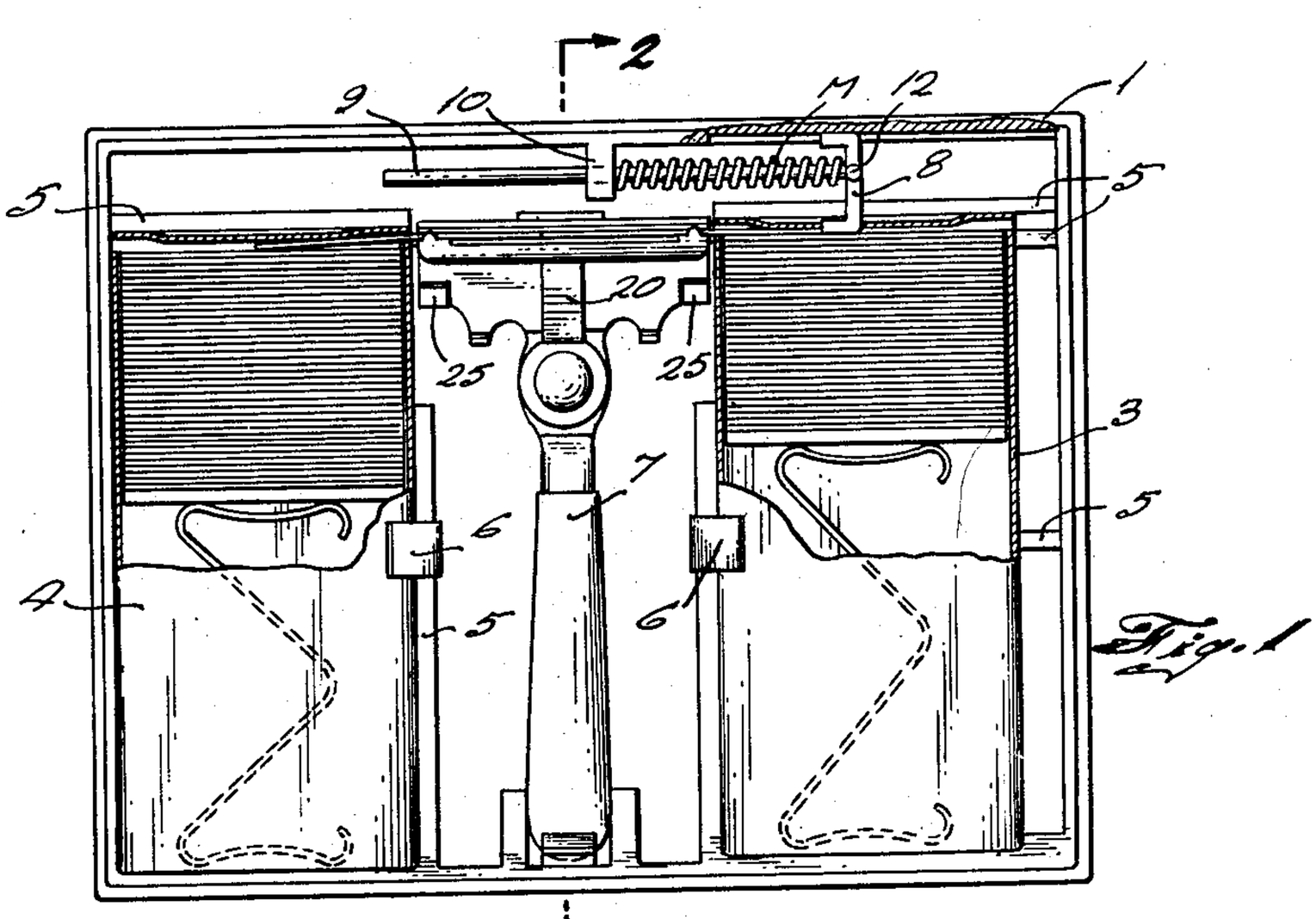

Fig. 1

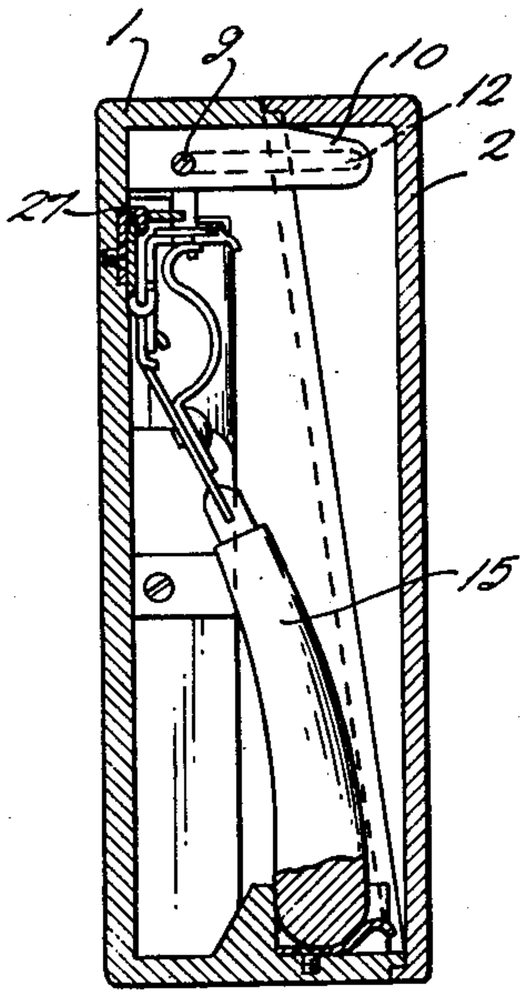

Fig. 3

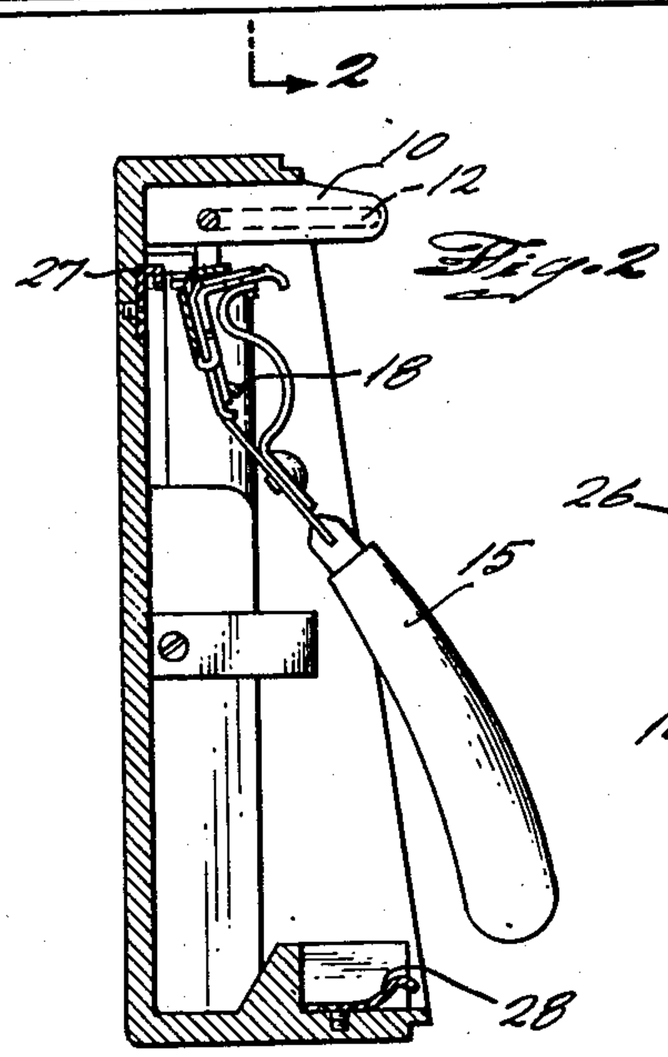

Fig. 2

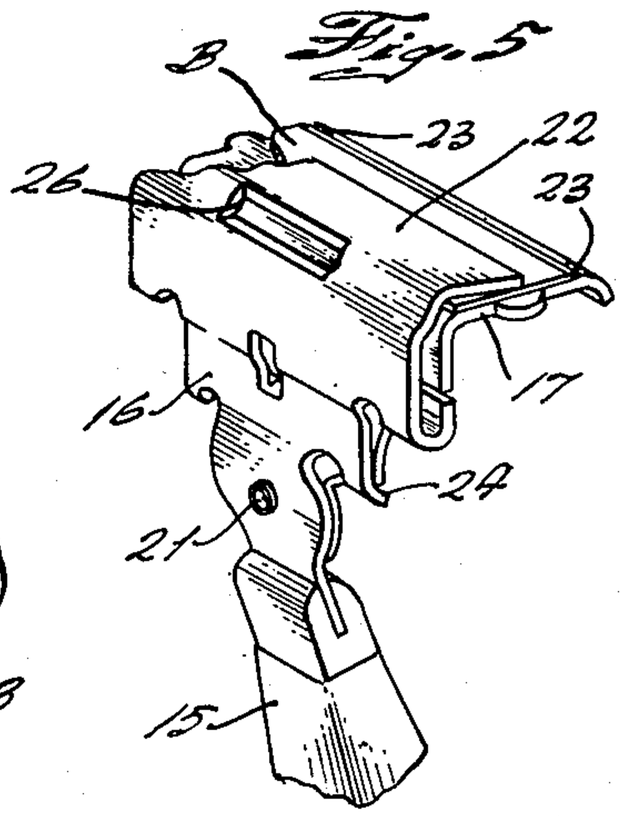

Fig. 5

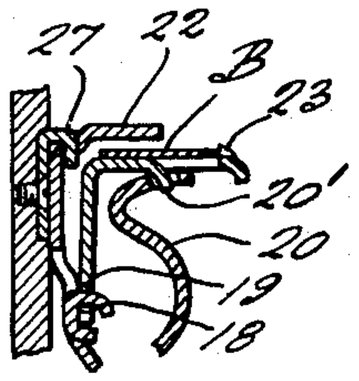

Fig. 4

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RAZOR AND BLADE CHANGER

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Application May 23, 1950, Serial No. 163,739

2 Claims. (Cl. 30—40)

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This invention relates to improvements in razors and blade changers.

The general object of the invention is to provide an improved razor and automatic blade changer for use therewith, in which the razor may be positively held in the blade changer and accurately positioned for ejecting a used blade and injecting a new blade.

With this general object as well as other objects which will appear, in mind, the invention consists in the combinations and arrangements of parts which will now be described with reference to the accompanying drawing and then be pointed out more particularly in the appended claims.

In the drawing:

Figure 1 is a plan view of a box containing a razor and blade changing mechanism embodying the invention in a preferred form;

Figure 2 is a section on the line 2—2 of Figure 1, as to the box, and showing the razor in the process of insertion;

Figure 3 is a view similar to Figure 2 but showing the razor inserted and the cover in position;

Figure 4 is an enlarged sectional view of a portion of Figure 3;

Figure 5 is an enlarged isometric view of the razor.

The blade changer is incorporated in a box 1, which may have a snap cover 2, as indicated in Figure 3. The box holds a new blade magazine 3 and a used blade magazine 4 by means of ledges or walls 5 and spring clips 6 and also holds a razor 7 in position for a blade change, the blade change is effected by a pusher 8 carried on a rod 9 slidable in a bearing bracket 10 and the pusher 8 is urged toward retracted position (to the right of Figure 1) by a spring M. The pusher 8 carries an upwardly extending pin 12 and the bearing bracket 10 extends upwardly, as shown in Figures 2 and 3, so that the pusher may be operated by squeezing the pin toward the bracket by means of the thumb and forefinger. It is thus unnecessary to hold the box or razor in any manner while accomplishing a blade exchange. The parts are so aligned that operating the pusher 8 from the position to the right of new blade magazine 3 to the limit of its leftward movement, forces the top blade of the magazine into the razor, pushing the used blade ahead of it into the used magazine, thus accomplishing a blade change.

The present invention is not concerned with the magazines and pusher mechanism specifically, but with the razor structure and the means for holding the same in position for a blade

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change. Details of the other structures are disclosed and claimed in my applications, Serial No. 54,618 filed October 15, 1948 for Razor and Blade Magazines Therefor, and Serial No. 159,038 filed April 29, 1950 for improvements in Razors and Blade Magazines Therefor.

The razor comprises a handle 15 in which is fastened a back 16. A guard 17 is loosely held on the back by a hook 18 struck out of the latter, passing through an aperture 19 in the guard. A guard support 20 fastened to the back by a rivet 21 holds the guard in position under the cap portion 22 thereof. A struck down projection 20' of the guard fits within an aperture in the element 20, as indicated in Figure 4. Lugs 23 at the ends of the guard engage the corners of the blade B for holding it in position while leaving the edge free and substantially unobstructed for shaving. Downward movement of the guard toward the handle is limited by ears 24 on the back and crosswise movement is limited by turned over portions 25 of the back, forming abutments in alignment with the guard. On its top, the back has a slot or aperture 26 for accommodating an opening hook or key on the blade changer. This hook, 27, as shown in Figures 2, 3 and 4, is positioned for holding the razor in position with relation to the blade magazines and a spring clip or seat 28 is provided for engaging the end of the handle. The razor is inserted in the blade changer in the manner indicated in Figure 2, aperture 26 being slipped onto the hook 27 and thereafter the handle is pushed inwardly until it is held by the catch 28. The back is thus flexed, so that it separates from the guard, as indicated in Figures 3 and 4, thus releasing the blade for sliding movement parallel its edge. As will be understood, the separation of the back and cap, as shown in the figures, is much exaggerated and only sufficient separation to permit the sliding of the blades is required.

What is claimed is:

1. The combination with a razor comprising a back and a guard, means yieldably holding the back and guard together in blade holding relation, the back having an upper flange overlying the guard to form a cap and an aperture at the back edge of the flange for receiving a key to grip the back and pull it away from the guard for releasing a blade, of a blade changer having razor holding means comprising a key adapted to fit in the said aperture and hold the razor, and magazine holding means positioned for holding new and used blade magazines in alignment for effecting a blade change in the razor.

2. The combination with a razor comprising

a back and a guard, means yieldably holding the back and guard together in blade holding relation, the back having an upper flange overlying the guard to form a cap and an aperture at the back edge of the flange for receiving a key to grip the back and pull it away from the guard for releasing a blade, of a blade changer having razor holding means comprising a key adapted to fit in the said aperture and hold the razor, means holding the razor in predetermined position on the key, and a magazine holding means positioned for holding new and used blade magazines in alignment for effecting a blade change in the razor.

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