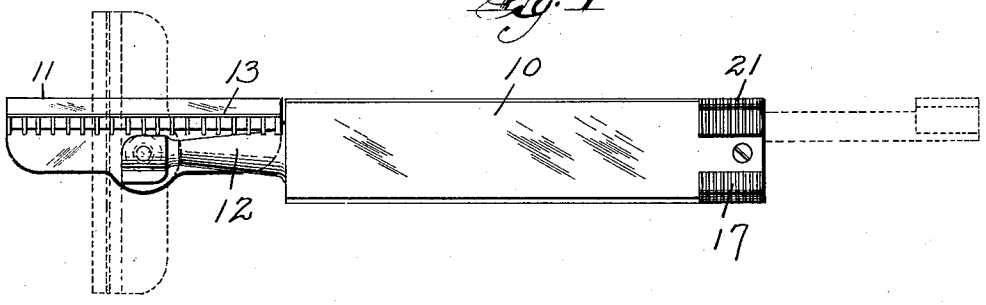
Sept. 13, 1932. O. V. RODRIGUES 1,877,429

MAGAZINE RAZOR

Filed Oct. 29, 1930 2 Sheets-Sheet 1

Fig. 1



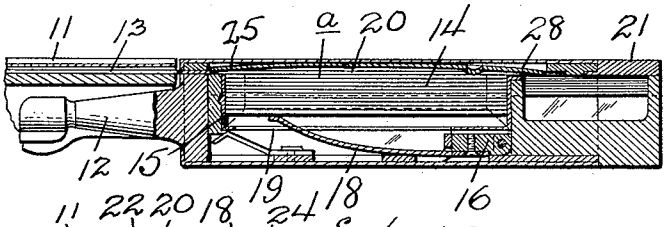


Fig. 2

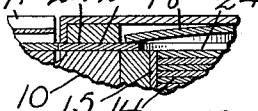


Fig. 10

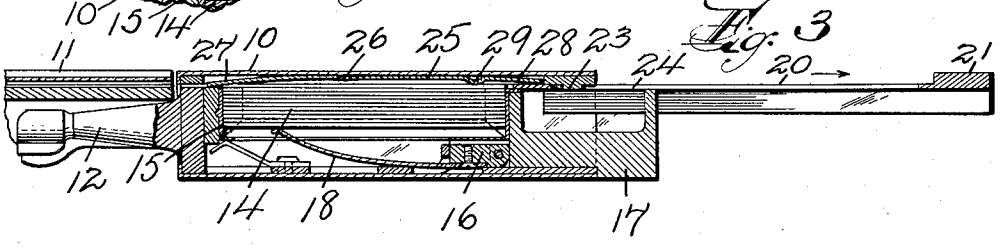


Fig. 3

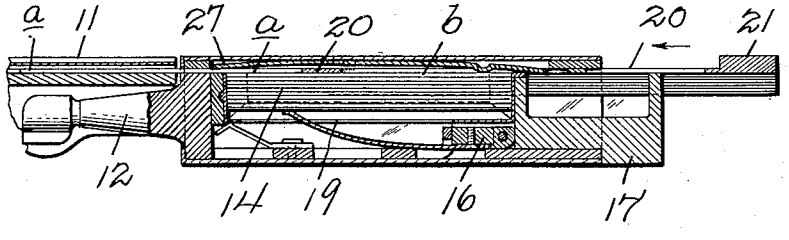


Fig. 4

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Sept. 13, 1932. O. V. RODRIGUES 1,877,429

MAGAZINE RAZOR

Filed Oct. 29, 1930 2 Sheets-Sheet 2

Fig. 5

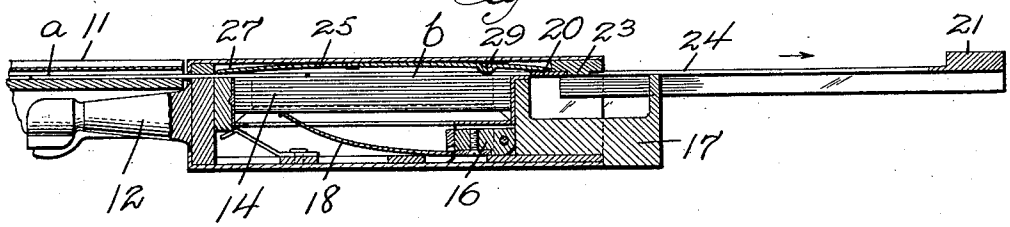


Fig. 6

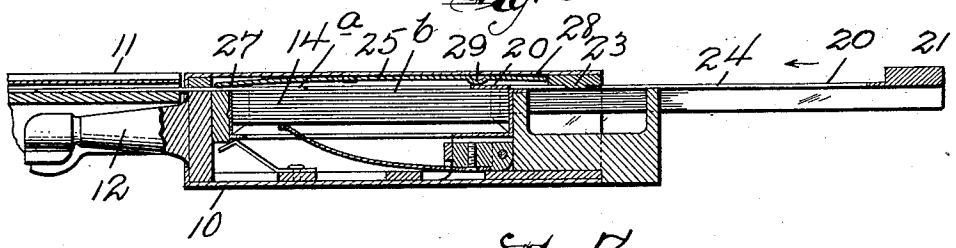


Fig. 7

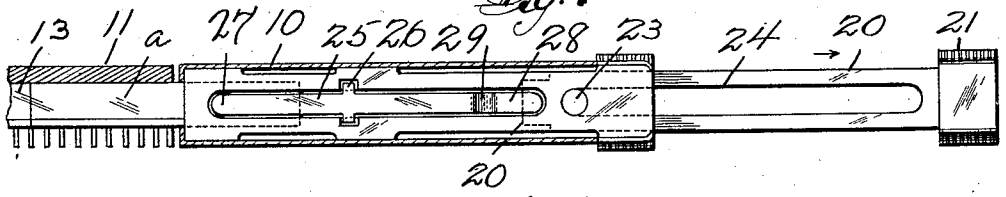
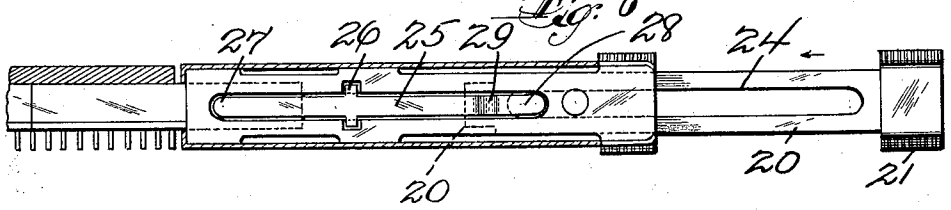


Fig. 8



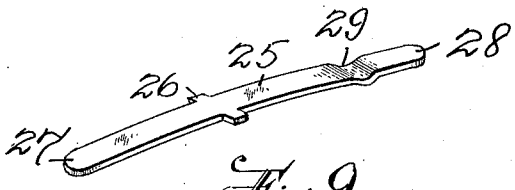


Fig. 9

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UNITED STATES PATENT OFFICE

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MAGAZINE RAZOR

Application filed October 29, 1930. Serial No. 491,843.

This invention relates to a magazine razor in which a stack of blades in the magazine is fed blade by blade into a shaving head. The feeding or transferring of each blade is done by an ejector which moves each blade flatwise into the shaving head.

The object of the present invention is to provide a means which is actuated by a partly advanced blade to hold the next succeeding blade out of the path of travel of the ejector. In this way the ejector can not pick up a blade until the immediately preceding blade is clear of the stack. This prevents jamming of the ejector or blades by two blades becoming wedged or seated in the aperture through which the blades are passed from the stack.

The invention is illustrated in the accompanying drawings in which Figure 1 is a side view of a magazine razor embodying my invention. Figure 2 is a longitudinal section of Figure 1. Figure 3 is a section showing the ejector fully withdrawn. Figure 4 is a similar view with the ejector partly advanced and a blade partly ejected. Figure 5 is a section illustrating the partly advanced blade and the ejector returned to its fully withdrawn position. Figure 6 is a section showing the ejector partly advanced with a blade partly ejected. Figure 7 is a top view with the face of the razor removed and Figure 8 is a similar view showing the ejector partly pushed in. Figure 9 is a perspective view of a lever used in the illustrated embodiment of the invention. Figure 10 is an enlarged sectional detail of the front end of the magazine in the position shown in Figure 2.

The razor that I have illustrated is the commercial type now in use and comprises a handle 10 and a shaving head 11 mounted on the post 12. The head is pivoted to the post and has a blade retaining slot 13 which receives a blade from the magazine in the handle when the head 11 is swung to position to receive the blade. The shaving position of the head 11 is shown in dotted outline in Figure 1.

The handle, in this form of razor, is the magazine and is therefore hollow to the extent of recieving a stack of blades 14. The stack is usually arranged in a clip 15 which in turn is supported in a holder 16. The holder 16 is slidable in the handle to allow old clips to be removed and full clips to be inserted. The handle 17 is operated to push and pull the holder in and out of the handle 10. The holder includes a spring 18 which passes through the open bottom 19 of the clip and forces the stack of blades upwardly in order that the blades can be successively fed from the top of the stack.

The transfer of the blades from the stack is accomplished by the ejector 20 which slides in the magazine and has the end 21 for its manipulation. The ejector moves longitudinally and feeds a blade by pushing it from the rear and through the aperture 22 in the magazine.

The invention is embodied in means for preventing the engagement of ejector with the back edge of the top blade while a blade is partly ejected from the stack. The blade partly advanced is utilized to hold the next blade down out of the path of travel of the ejector 20 and against the influence of the spring 18.

In feeding a blade the ejector is withdrawn as far as it can travel as in Figure 3. The ejector is halted by the stud 23 which is in the slot 24 in the ejector 20. By sliding the ejector forward the top blade *a* in the stack is pushed through the aperture 22 and thus ejected. This is possible as the front end of the ejector is brought back behind the stack of blades when the ejector is in the position shown in Figures 3 and 7.

If, however, a blade is in transit or it is partly ejected it engages a lever 25 pivoted intermediate its ends, as at 26 in the top wall of the magazine, under which the ejector slides. The front end 27 of the lever 25 extends beyond the front of the stack and close up to the inner end of the aperture 22. The rear end 28 of the lever is arranged to bear on the next top blade *b* of the stack to hold it down out of the path of travel of the ejector. The blade *a*, partly ejected, (Figure 4), forces up the end 27 of the lever and this causes the end 28 of the lever to push

down on the stack (Figure 5) and the ejector does not pick up the next blade *b* on its return stroke. (Figure 6.)

The end 28 is preferably provided with a projection 29 which acts as an anti-friction or wedging member to allow the ejector to pass forwardly and engage again the partly ejected blade *a* and complete the ejection. The razor is thus insured against jamming and a blade can not be picked up by the fully retracted ejector so long as a blade is in the razor in advance of the stack and not in the aperture 22.

Various changes can be made in the disposition and form of the parts without departing from the scope of the invention.

I claim:—

1. A magazine razor comprising a magazine for blades, an ejector for feeding blades successively from the magazine, a lever having one end slightly in advance of blades in the magazine and its other end above the blades in the magazine whereby a blade when advanced depresses the remaining blades out of the path of travel of the ejector.

2. A magazine razor comprising a magazine for holding a stack of blades, a sliding ejector for transferring a blade from the stack, a lever pivoted intermediate its end and having one end in advance of the stack and the other end above the stack whereby the ejector or a blade in advance of the stack will cause the said advanced end of the lever to rise and thus cause the other end to hold the top blade of the stack out of the path of travel of the ejector.

3. A magazine for a stack of razor blades comprising a holder for a stack of blades, an ejector slidable above the holder to successively advance blades from the stack, the magazine having an aperture for the passage of an advanced blade, a lever hinged at its central part with one end in advance of the stack and its other end over the stack, said latter end having a depressed part for engagement with the stack.

4. A magazine razor comprising a magazine for a stack of blades and a casing having an aperture for the exit of a single blade, an ejector for endwise ejection of the blades one by one, and means extending from a point in advance of the stack and to a point over the stack, said means being operable at its advanced end by a blade to depress the stack of blades to lower the top blade out of the path of travel of the ejector, and spring means for resiliently seating the stack of blades in engageable position when the depressing means is inoperative.

O. VICTOR RODRIGUES.