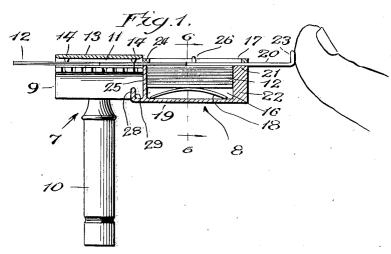
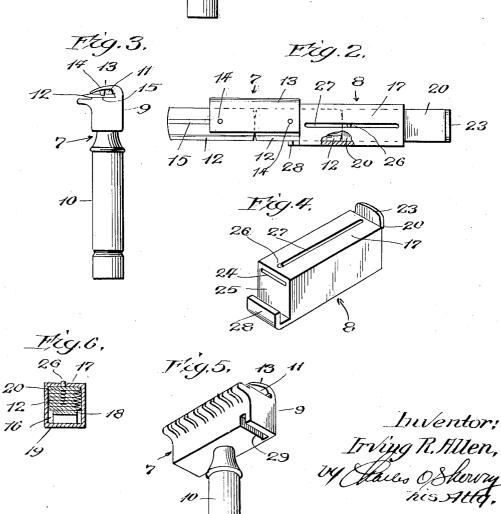
SAFETY RAZOR AND BLADE MAGAZINE THEREFOR

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blade magazines therefor, and its principal object is to provide a safety razor with a magazine for containing a plurality of razor 5 blades, which magazine is separate from the razor, but capable of being attached or coupled thereto in position whereby one of the blades contained in the magazine may be fed into the razor, and, at the same time, eject a 10 dull blade from the razor. Another object is to provide simple means whereby a plurality of sharp razor blades may be stored in a magazine, free from contamination, and capable of being fed directly from the magazine 15 into the razor, by the application of force to a blade feeding member, the same movement being exerted to eject a dull blade from the razor.

Another object is to provide a novel, at-20 tractive and practical device for the purpose described, which shall be simple, and comparatively inexpensive in construction.

The invention consists, therefore, in a razor having an associated, but separately formed 25 blade magazine, from which razor blades may be directly fed into the razor. It further consists in a razor having an associated, but separately formed blade magazine, which may be readily attached to or coupled with 30 the razor in position whereby a blade may be fed directly from the magazine into the razor, and detached from the razor after the blade has been fed thereinto.

It further consists in a device as above de-35 scribed in which the blade, which is being fed into the razor, acts to eject the dull blade from the razor. It further consists in a magazine for storing a plurality of razor blades, having means whereby one blade at a time 40 may be fed into the razor. It further consists in a blade magazine in which the blades are brought successively into engagement with the feeding means, whereby one blade at a time may be fed into the razor.

It further consists in the several novel features hereinafter fully set forth and claimed. The invention is clearly illustrated in the the receptacle. accompanying drawing in which-

Figure 1 is a view, partly in front elevation 50 and partly in vertical section, of a razor and rectly under the cover 17, and is capable of 100

This invention relates to safety razors and an associated blade magazine embodying a simple form of the present invention;

Fig. 2 is a plan of the parts seen in Fig. 1; Fig. 3 is a side elevation of the razor alone; Fig. 4 is a perspective view of the maga-

Fig. 5 is a perspective view of the razor with the handle partly broken away; and

Fig. 6 is a detail vertical section taken on the line 6—6 of Fig. 1.

Referring to said drawing, which illustrates one embodiment of the present inven-tion, the reference character 7 designates the razor and 8 the blade magazine. The razor is illustrated as of conventional form, having a 65 razor head 9 secured to a handle 10. In the head is a slot or channel 11, in which the razor blade 12 is received and held in position Conveniently, a spring or for shaving. spring member 13, secured to or formed as a 70 part of the head, forms one side of the channel 11 and its free edge presses upon the side of the blade and holds it in place in the head. If desired, the spring or spring member 13 may be provided with pins or lugs 14 which 75 enter the channel 11 and engage in a groove 15 formed in one side of the razor blade. This arrangement forms an additional means for guiding and securing the blade in the razor head.

Associated with the razor, but as a separately formed unit, connectible with and disconnectible from the razor, is the blade magazine 8 in which is stored a plurality of safety razor blades 12 similar to the one held 85 in the razor head, and capable of being fed directly from the magazine to the head. In the simple form of the invention illustrated, the magazine is of rectangular or box-like formation, containing a rectangular cham- 90 ber 16 in which the blades are held. A cover 17 closes one side of the receptacle and the blades are spring pressed toward said cover by a spring 18, here shown as a bowed flat spring confined under compression between 95 the lowermost blade 12 and the bottom 19 of

A push bar or other blade feeding member 20 is slidably mounted in the magazine di-

charging the blades from the magazine. As and the latter is ready for use. shown, the push bar is guided between the sides of the magazine and projects out through a slot 21 in an end wall 22 of the magazine, where it is provided with a thumb piece 23. Its other end is adapted to engage with an edge of the uppermost blade when withdrawn to its fullest extent. A discharge slot 24 is formed in the end wall 25 of the magazine in alignment with the push bar, through which discharge slot the blades are fed out from the magazine one at a time.

For limiting the endwise movement of the 15 push bar, a pin 26 is provided on its outer side, which pin rides in a slot 27 formed in the cover 17. It will be observed that the spring 18 acts to hold the tier or stack of blades against the underside of the push bar, 20 but that when the latter is fully retracted, the tier or stack is moved up, thereby moving the uppermost blade against the under side of the cover 17 and bringing it into the position formerly occupied by the push bar, 25 and directly in front of the end thereof. Obviously by pushing forward on the thumb piece 23, the uppermost blade may be discharged through the discharge slot 24.

Co-acting means are provided on the razor 30 and magazine whereby the two may be connected or coupled together with the discharge slot in register with an end of the blade receiving channel 11, in the razor head 9, whereby a blade may be fed directly from the mag-35 azine and into the head. In the form of the invention illustrated, one end of the magazine is provided with a hook member 28 and the razor head is formed with a notch 29 into which the hook member may be inserted, as shown in Fig. 1, to couple the razor and magazine together, end for end, in position with the discharge slot 24 in register with the end of the channel 11. The razor and magazine are thus coupled together when it is 45 desired to eject a dull blade from the razor and insert a sharp one thereinto. Fig. 1 shows the parts in this position, with the full blade partly ejected from the razor, and a sharp blade partially inserted into the razor.

In operation, the push bar 20 is retracted to its fullest extent and the uppermost blade in the magazine is consequently moved up in front of the push bar by the spring 18. The magazine is then attached to the razor head as above described, and the push bar forced back into the receptacle, thereby forcing the uppermost blade through the discharge slot and against the end of the dull blade in the channel 11 of the razor head. The continued inward movement of the push far to its fullest extent causes the sharp blade, which is being discharged from the magazine, to eject the dull blade from the 65 razor head, and take its place therein. The

being reciprocated for the purpose of dis- magazine is then detached from the razor

It will be observed that with the present invention, safety razor blades may be sold in magazines, protected against contamination, and ready to be easily fed into a safety razor. The magazine being formed as a unit, separate from the razor, is light and not cumbersome to handle as in the case where the handle of the razor is formed to contain the 75 blades. The parts are simple and not likely to get out of order. The device may be made so economically that it may be sold at so low a price that the empty magazine may be discarded and replaced by a filled one.

More or less variation of the exact details of construction is possible without departing from the spirit of this invention. I desire, therefore, not to limit myself to the exact form of the construction shown and described, 85 but intend, in the following claim, to point out all of the invention disclosed herein.

I claim as new, and desire to secure by Letters Patent:

The combination with a safety razor hav- 90 ing a blade receiving channel and provided with a slot adjacent one end, of a blade holding magazine provided with a blade ejecting member and co-operating attaching means on the razor and magazine comprising a hook member on the magazine adapted to engage in the slot in the razor for detachably securing the razor and magazine together.

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