

June 24, 1952

J. C. FENNELLY

2,601,601

RAZOR BLADE INJECTOR AND DISPOSAL DEVICE

Filed Dec. 7, 1946

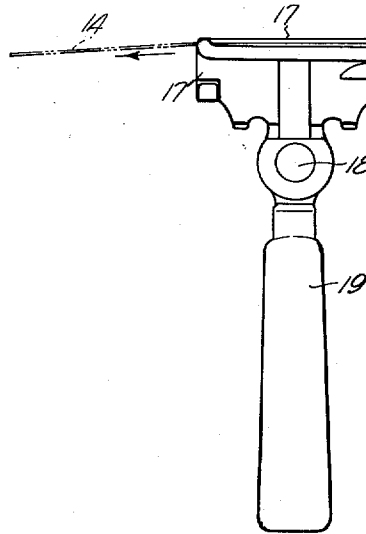


Fig. 1.

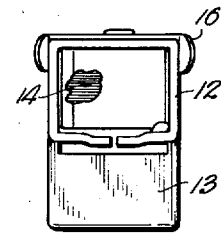


Fig. 2.

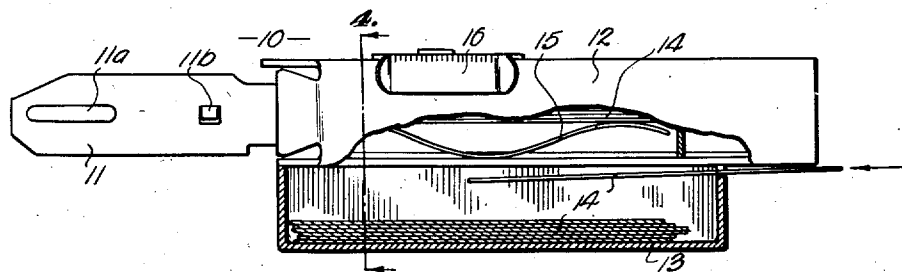


Fig. 3.

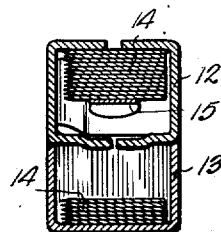


Fig. 4.

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UNITED STATES PATENT OFFICE

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RAZOR BLADE INJECTOR AND DISPOSAL
DEVICE

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Application December 7, 1946, Serial No. 714,721

1 Claim. (Cl. 206-16)

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This invention relates to improvements in a razor blade injector and disposal device, and refers more particularly to a blade changer having a compartment or container made integral with the magazine of the injector.

The disposal of used blades has been and remains a serious problem. The blades constitute a hazard not only to the user, but to others. Whether the handler of the blades be forewarned or runs across them without knowledge of their existence, their disposal is a problem and is the cause of many accidents. The present invention seeks to devise a depository for used blades which will entirely eliminate all such hazards and accidents.

An object of the invention, therefore, is to provide a convenient disposal container into which the blade can be placed immediately after use.

Another object is to provide a compartment or box-like container affixed to and forming an integral part of the magazine of a blade injector or changer with a slotted opening in the end of the compartment for insertion of the used blades.

A further object is to provide an injector having a magazine for new blades, and a disposal compartment for used blades, offering safety enclosures for both types until the supply of new blades has been exhausted, and a disposal container for the final batch of used blades.

Other and further objects of the invention will appear from the following description.

In the accompanying drawings which form a part of the instant specification and are to be read in conjunction therewith, and in which like reference numerals indicate like parts in the various views,

Fig. 1 is a side view of an injector or blade changer embodying the invention and shown in operative position with the blade holder or razor,

Fig. 2 is an enlarged end view of the injector,

Fig. 3 is an enlarged side view of the injector with portions of the walls of the magazine and disposal compartment broken away,

Fig. 4 is a view taken along the line 4-4 in Fig. 3 in the direction of the arrows.

In the drawings the injector or blade changer is designated as a unit by the numeral 10, and consists essentially of a support or wedge member 11, a new blade magazine 12, and a used blade compartment 13. A clip of new blades 14 is inserted in the open end of the magazine, shown best in Fig. 2. A bowed leaf spring 15 lying beneath the stack of blades 14 keeps the uppermost blade pressed against the top of the magazine and in position to be ejected into the blade

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holder or razor by a slide 16. An ejector plate attached to slide 16 moves longitudinally within the magazine getting behind the end of the uppermost blade at the rearward stroke of the slide and ejecting the blade from the opposite end of the magazine into the blade holder on the forward stroke.

The blade holder or razor shown in Fig. 1 consists of blade holding members 17 pivoted at 18 on a handle 19. At the back of the razor between the blade holding members is a narrow slot or passageway into which fits wedge member 11 of the blade changer or injector 10. The function of the wedge is to spread the blade holding members and release their grip on the blade so it may be easily ejected and a new blade inserted.

After the used blade is ejected from the holder, as shown in dotted lines in Fig. 1, it is picked up and inserted into the disposal chamber as shown in Figs. 1 and 3.

The ridge 11a formed in the wedge 11 and tongue 11b punched from its side assure proper positioning of the magazine with respect to the blade holder or razor after insertion of the wedge between the holding members and during the blade changing operation. The slotted opening 13a at the end and near the top of the disposal compartment permits easy insertion of the used blades and prevents the blades from falling out when the injector is being used.

Thus it will be seen the objects of the invention have been accomplished. There has been provided a disposal compartment or container for used razor blades formed as a part of the magazine of the blade changer or injector. The magazine and disposal compartment are integral parts of the injector and have a common wall therebetween. The used blade ejected from the razor or blade holder are stored in the disposal container until the magazine of new blades is exhausted, then the injector as a whole serves as a disposal unit.

As many possible embodiments may be made of the invention without departing from the scope thereof, it is to be understood that all matter herein set forth or shown in the drawings is to be interpreted as illustrative and not in a limiting sense.

Having thus described my invention, I claim:

A razor blade injector comprising an elongated magazine for fresh blades and an elongated compartment for receiving used blades, said magazine and compartment disposed side-by-side with a common wall therebetween and their ends being staggered so one end of the magazine juts beyond

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the corresponding end of the compartment, and said last end of the compartment comprising a rectangular wall normal to said common wall and having one edge spaced slightly away from said common wall to provide a narrow slot immediately adjacent said common wall, for insertion of blades in an endwise direction.

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The following references are of record in the file of this patent:

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