Dec. 30, 1958 L. L. WILCOX 2,866,289

UNLOADING ATTACHMENT FOR RIFLES

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Fig. 1

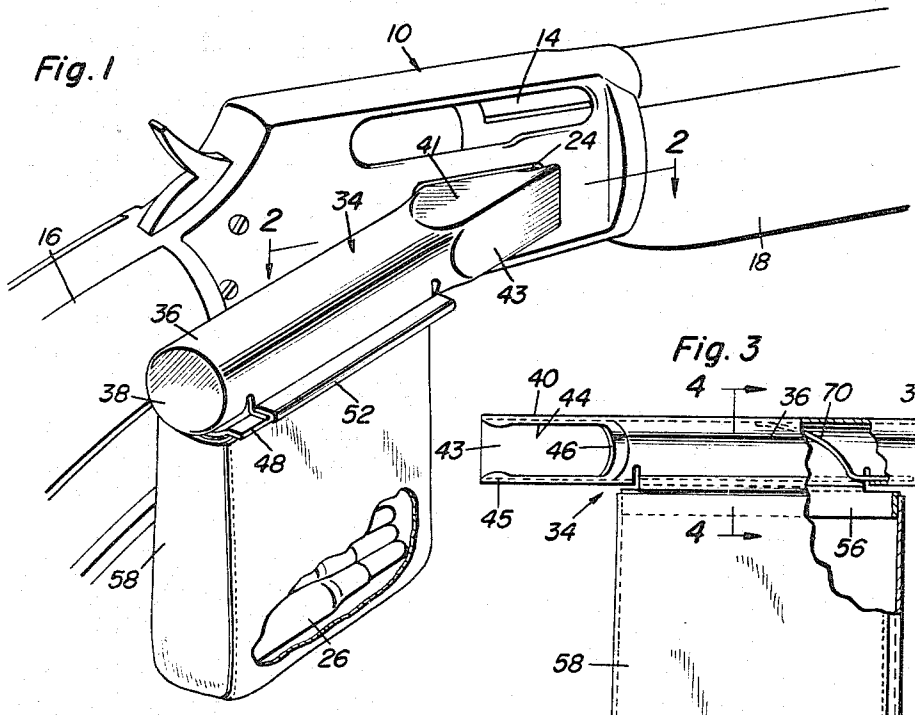


Fig. 3

Fig. 2

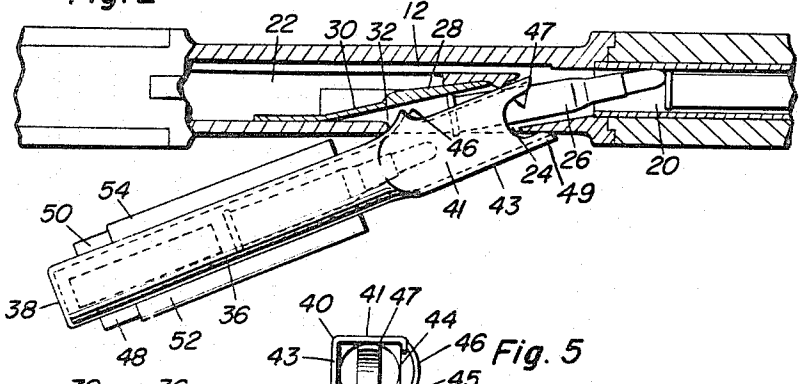


Fig. 4

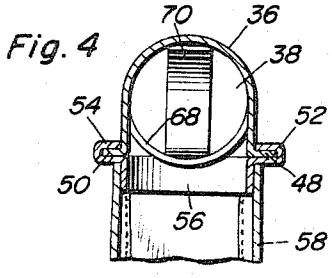
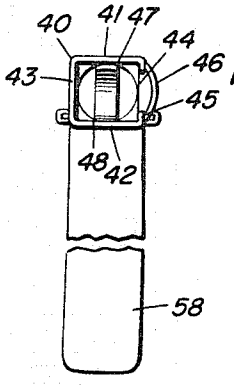


Fig. 5



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Fig. 6

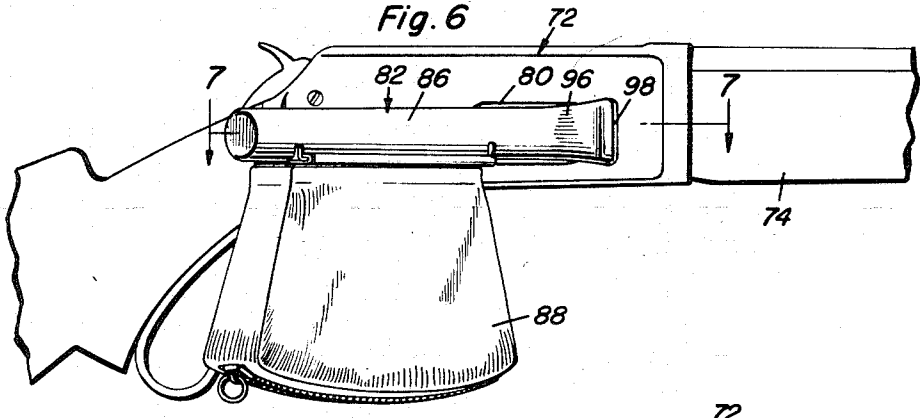


Fig. 7

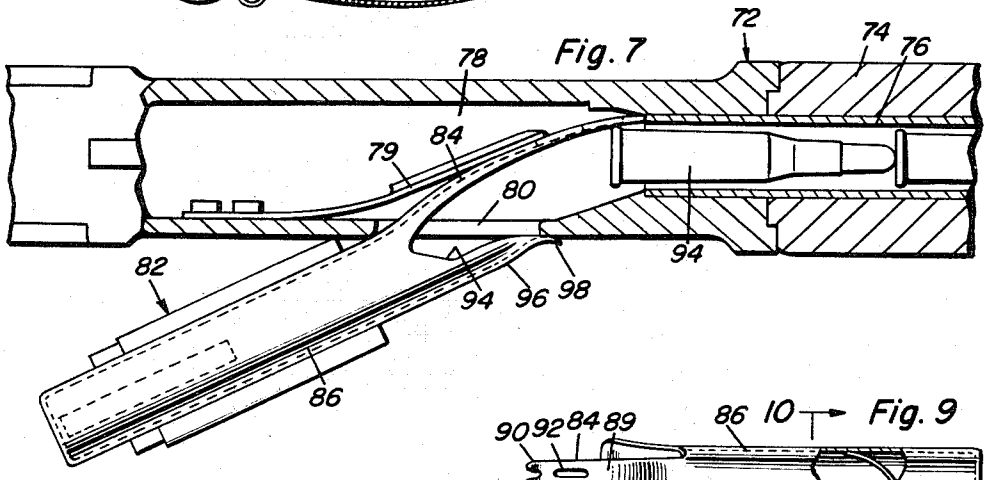


Fig. 9

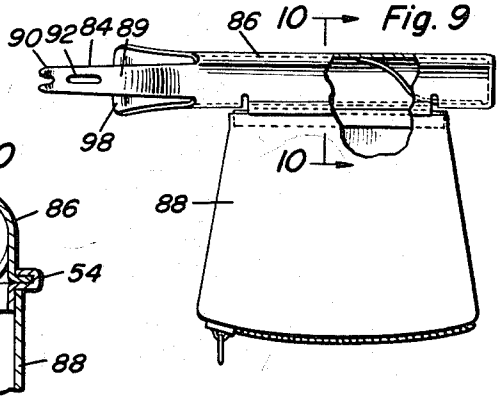


Fig. 8

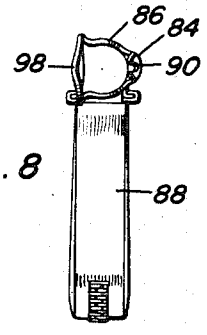
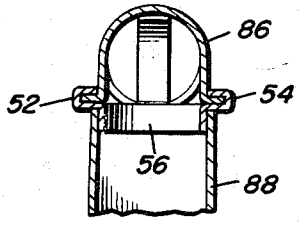


Fig. 10



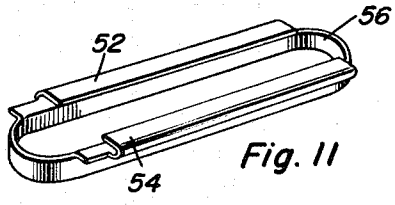


Fig. 11

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UNLOADING ATTACHMENT FOR RIFLES

Leslie L. Wilcox, Long Branch, N. J.

Application July 19, 1955, Serial No. 523,022

4 Claims. (Cl. 42—87)

This invention relates to a device for unloading magazines of firearms, and particularly to the removal of unused cartridges from the magazine of a repeating firearm which is provided with an opening in the side of the receiver through which the shells are introduced into the magazine and through which the unused cartridges may be removed.

An object of the present invention is to provide means for safely and easily unloading firearms which have magazines for storing a number of cartridges, the unloader including a receptacle of a suitable type to accept and store the cartridges when they are accepted from the firearm together with an unloading tube having a specially designed tip adapted to be passed into the firearm receiver and to be placed in communication with the magazine.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompany drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a fragmentary perspective view of a rifle of one well known type having the unloader attached thereto;

Figure 2 is a sectional view taken substantially on the line 2—2 of Figure 1 and in the direction of the arrows;

Figure 3 is a side view of the unloader, parts being broken away in section to illustrate internal details;

Figure 4 is an enlarged transverse sectional view taken substantially on the line 4—4 of Figure 3 and in the direction of the arrows;

Figure 5 is an end view of the unloader;

Figure 6 is a fragmentary side view of another commonly known rifle with the unloader attachment applied thereto;

Figure 7 is an enlarged sectional view taken substantially on the line 7—7 of Figure 6 and in the direction of the arrows, illustrating a modification of the invention designed especially for use in connection with this type of rifle;

Figure 8 is an end view of the unloader;

Figure 9 is a side view of the unloader with portions broken away to illustrate internal detail;

Figure 10 is an enlarged sectional view taken substantially on the line 10—10 of Figure 9 and in the direction of the arrows; and

Figure 11 is a perspective view of a portion of the means of attaching the receptacle to the unloader tube in the unloading device.

The rifle 10 fragmentarily shown in Figure 1 is a commonly known "Marlin." It includes a receiver 12, a bolt 14, a stock 16, forearm 18 and a magazine 20. The firearm 10 is a repeating rifle of the lever-action type, the action lever being shown at 22, which lever is pivoted to the lower portion of the receiver. As is understood in the art, the lever 22 functions to engage the bolt 14 and move the latter rearwardly when the action lever

is operated, this structure being quite common in lever-action repeating firearms.

As shown in Figure 2, there is an opening 24 provided in the side wall of the receiver, through which opening cartridges as at 26, are inserted into the magazine 20 against the action of a spring (not shown) in the forward end of the magazine. Opening 24 is normally closed by a gate 28, the gate having a resilient tail 30 secured to the side wall of the receiver so that the tail acts as a spring normally holding the gate in a closed position.

Unloader 34 for the firearm comprises an unloading tube 36 having a closed end 38 together with a tip 40. The tip is adapted to be passed through opening 24 into the receiver and placed in communication with the magazine 20. In this way, cartridges 26 under spring pressure in the magazine are passed into tip 40 and subsequently into unloading tube 36. The tip 40 is designed especially for use in connection with the "Marlin" rifle disclosed and others like it and consists of flat upper and lower walls 41 and 42, respectively, to which is connected back wall 43. A longitudinal slot 44 is formed in the front wall 45 of tip 40, and this slot acts as a guideway for the cartridges 26. At the inner end of slot 44, there is a guide 46 which is adapted to seat upon the edge (Figure 2) 32 of opening 24 when the unloader 34 is disposed in the receiver of the rifle. The top and bottom walls 41 and 42 have generally U-shaped end notches 47 and 49 allowing the tip 40 to be inserted in the magazine with 47 acting to force back gate 28 and 49 bearing against the outer surface of receiver 12 to act as a stop for the insertion of the tube as shown.

Unloading tube 36 has lateral flanges 48 and 50 secured intermediate its ends and extending longitudinally thereof. These flanges are accepted in the rails 52 and 54 of collar 56, the latter being cemented or otherwise connected to a receptacle 58. This receptacle may be of any material suitable for the purpose and may have other types of fastening devices in it, such as slide fasteners, buttons, snaps or any others deemed desirable. In operation of this form of the invention, the tip 40 is inserted into the opening 24 until it aligns substantially with the magazine 20. At this point, the spring pressure on the cartridges 26 causes them to be urged to the tip and specifically, into the guide slot 44 thereof. They pass into the bore of the unloader tube 36 and fall through the bottom opening 68 therein, this opening being in registry with the receptacle 58. A spring guide 70 is secured within the unloader tube 36 and extends partially above the opening 68 to assure that the cartridges will enter the opening 68 and finally the receptacle 58. When the magazine 20 is unloaded, the unloader 36 is removed.

Attention is now invited to Figures 6–10 where a "Winchester" rifle 72 is fragmentarily shown. This "Winchester" includes a forearm 74, magazine 76, receiver 78, a gate 79 and an entrance 80 in the side of the receiver 78, the entrance 80 being normally closed by the spring urged gate 79. The unloader 82 for this type of rifle is very similar to the unloader 34. The distinction is mainly in the tip 84 at one end of the unloader tube 86. The receptacle 88 is slightly different in construction from receptacle 58; however, this is merely to illustrate that any type of suitable receptacle may be used in connection with the unloader tube 86.

Tip 84 has a back wall 89 which is smoothly curved and slightly trough-shaped in cross-section. An outwardly opening guide slot 90 is at the extreme end of wall 84 and there is aligned therewith a further guide slot 92 spaced slightly from it. When the tip 84 is inserted in the receiver, the outer end of wall 84 comes to bear against the magazine liner, and when the cartridges 94 are passed into the tip structure 84, the rims of the cartridges are guided by the slots 90 and 92 and also by

the slightly curved cross-section of wall 84. The upper and lower walls of the tip 84 are notched, as at 94, for facility of inserting the unloader 82, and front wall 96 has a curved end 98 which is adapted to rest on the outer surface of the receiver near the cartridge entrance 80.

The operation of this form of cartridge unloader is identical to the operation described previously in connection with the structure of Figure 2. It is observed that in both instances, it is unnecessary to actuate any of the gun firing mechanism in order to unload the rifle. Rather, the spring force used to normally maintain the cartridges 94 under a spring load is relied on to unload the magazine into the unloading tube and ultimately, into the receptacle.

The foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly, all suitable modifications and equivalents may be resorted to, falling within the scope of the invention as claimed.

What is claimed as new is as follows:

1. In a repeating firearm having a receiver and a magazine which communicates with the receiver, said receiver having an opening in its side wall through which cartridges may be inserted into the magazine, and a normally closed gate for said opening, an attachment comprising an unloader for the cartridges in said magazine, said unloader comprising an unloading tube having an end with a cartridge entrance insertable beyond said gate and into said receiver, a forwardly protruding fixed tip on one side of said end of said tube and forming a guideway for the cartridges to enter the body of said tube, and a forwardly protruding stop on the other side of said tube which bears against the outer surface of said receiver to limit the inward travel of said tube and align said tube when said end of said tube is inserted in said opening, a receptacle for the cartridges communicating with the interior of said tube, and a cartridge spring guide in said tube to guide the cartridges into said receptacle.

2. In a repeating firearm having a receiver and a magazine which communicates with the receiver, said receiver having an opening in its side wall through which cartridges may be inserted into the magazine, and a normally closed gate for said opening, an attachment comprising an unloader for the cartridges in said magazine, said unloader comprising an unloading tube insertable beyond said gate and into said receiver, a forwardly protruding tip in fixed immovable position on said tube forming a guideway for the cartridges to enter the body of said tube, a receptacle for the cartridges communicating with the interior of said tube, a cartridge spring guide in said tube to guide the cartridges into said receptacle, and means spaced from said guideway and protruding forwardly of said tube which contacts the outer surface of the receiver when inserting said tube in said opening.

3. The unloader of claim 2 wherein said tip has a longitudinal guide slot therein which opens laterally of the magazine when said unloading tube is disposed in said receiver.

4. In a firearm which has a receiver and a magazine in communication with the receiver, said receiver having an opening in its side wall through which cartridges are adapted to pass into the magazine, a normally closed gate for said opening, an unloading tube having a tip with a forwardly extending fixed wall adapted to be brought against said gate to open the latter and to pass into said receiver, the edge of said tip defining an entrance for the cartridges and adapted to align with the magazine so that the cartridges may pass through said tip and into said tube, another part of said edge of said tip constituting a stop which is adapted to contact the receiver when inserting said tube into said opening, there being forwardly opening upper and lower recesses in said tube between said wall and said part of said tip which receive an edge of said receiver at said opening when said tip is inserted in said opening, said tube including a cartridge spring guide for guiding said cartridges, and means in operative communication with said tube for collecting the cartridges which pass thereinto.

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