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R. COMPTON  
AUTOMATIC RIFLE WITH A COMBINED MOVABLE  
CHAMBER AND MAGAZINE

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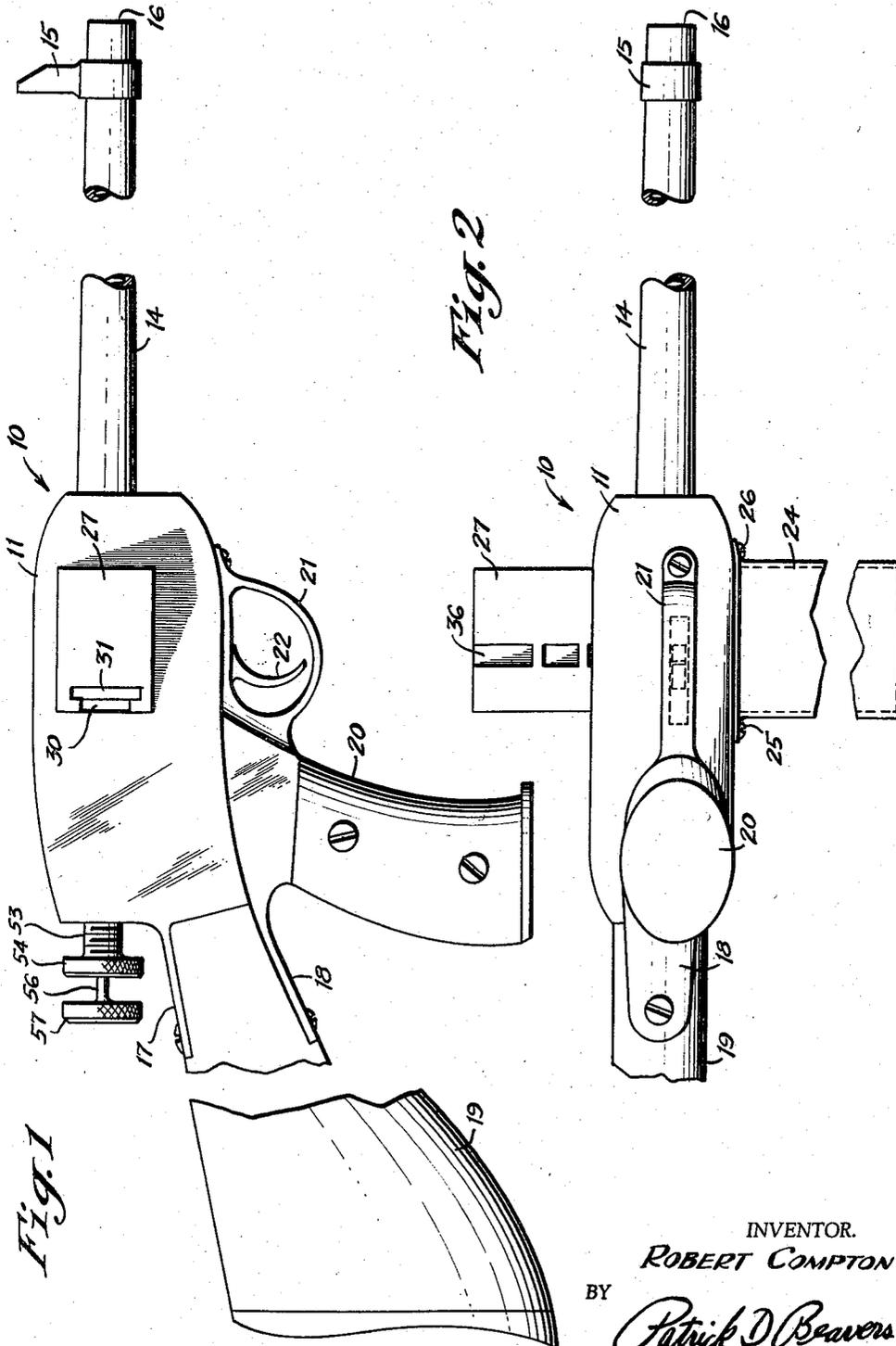


Fig. 1

Fig. 2

INVENTOR.  
ROBERT COMPTON  
BY  
*Patrick D. Beavers*  
ATTORNEY.



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**AUTOMATIC RIFLE WITH A COMBINED  
MOVABLE CHAMBER AND MAGAZINE**

Robert Compton, Odem, Tex.

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1 Claim. (Cl. 42—39.5)

This invention relates to improvements in automatic or semi-automatic rifles.

An important object of the invention is to provide a rifle of this character that is provided with a simple and efficient cartridge feeding mechanism.

Another important object of the invention is to provide a rifle of this character that has no ejector, extractor or bolt.

A further object of the invention is to provide a rifle that can be operated even if a misfire occurs, because the reloading of the rifle does not depend on any recoil or gas from a fired cartridge.

With the above and other objects and advantages in view the invention consists of the novel details of construction, arrangement and combination of parts more fully hereinafter described, claimed and illustrated in the accompanying drawings, in which:

Fig. 1 is a side elevational view, with parts broken away, of a rifle embodying the invention;

Fig. 2 is a bottom plan view of the rifle of Fig. 1;

Fig. 3 is a detailed sectional view of the receiver of the rifle of Fig. 1;

Fig. 4 is a vertical sectional view on the line 4—4 of Fig. 3;

Fig. 5 is a transverse sectional view on the line 5—5 of Fig. 3;

Fig. 6 is a perspective view of the firing pin of the rifle;

Fig. 7 is a detailed fragmentary sectional view of the cartridge holding plate; and

Fig. 8 is a perspective view of a magazine for the rifle.

Referring more in detail to the drawings, wherein like parts are designated by like reference numerals, the reference numeral 10 is used to generally designate a rifle embodying the invention.

The rifle 10 comprises a receiver 11 having a threaded bore 12 which receives the reduced threaded portion 13 of the rifle barrel 14. The barrel 14 has a sight 15 near the muzzle 16 thereof. A tang 17 extends from the receiver 11 at the end thereof opposite the end thereof to which the barrel 14 is attached. A plate 18 is secured to the receiver 11 in alignment with the tang 17 and a stock 19 is mounted between the tang 17 and plate 18 in the conventional manner. A pistol grip 20 is provided in the plate 18 and a trigger guard 21 for the trigger 22 is formed integral with the plate 18 and pistol grip 20.

The receiver 11 has a chamber 23 extending there-through at right angles to the axis of the barrel 14 and a magazine box 24 extends from one side of the receiver 11 in communication with and alignment with the chamber 23. An annular flange 25 permitting the box 24 to be secured to the receiver 11 by fasteners 26.

Slidably mounted in the chamber 23 and box 24 is a magazine 27 which has chambers 28 therein to receive .45 caliber cartridges 29. A slot 30 extends longitudinally of the magazine 27 in the rear thereof and a bar 31 is slidably mounted in the slot 30. The bar 31 is provided with a plurality of substantially triangular shaped

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lugs 32. A slot 33 is provided at the base of each lug for a purpose to be later described.

A hollow plunger 34 of a size to conform to and freely move in the box 24 is positioned in contact with one end of the magazine 27. An expansion spring 35 is positioned in the box 24 with one end in the plunger 34 and the spring 35 urges the magazine 27 outwardly of the chamber 23.

The bottom of the magazine 27 is provided with a plurality of teeth or notches 36 and a dog 37 mounted in a recess 38 in the receiver 11 is adapted to selectively engage the teeth 36. The dog 37 is mounted on one end of a spring 39 which is fixed at one end by a set screw 40 in the receiver 11. The spring 39 extends into a compartment 41 in the receiver 11.

The front of the magazine 27 is provided with a plurality of teeth or notches 42 that are adapted to be engaged by a dog 43 on the end of an L-shaped lever 44 which is pivoted at 45 in the compartment 41 and positioned in the slot 46 in the receiver 11. A spring 47 connected to the free end of the lever 44 urges the dog 43 into the teeth 42 in the magazine 27. The trigger 22 has a contact portion 48 thereon that engages the lever 44 and the trigger 22 is pivoted at 49 and extends through a slot 50 in the receiver 11.

The receiver 11 is provided with a bore 51 in line with the bore of the barrel 14 and a portion of the bore 51 is threaded at 52 to receive the threaded plug 53. The plug 53 has a knurled shoulder 54 on the outer end, and a bore 55 in the shoulder 54 to receive the firing pin 56. The outer end of the firing pin 56 has a knurled button 57 thereon and a tapered shoulder 58 at approximately the center thereof. A spring 59 mounted on the firing pin 56 engages the shoulder 58 at one end and at the opposite end is seated in a socket 90 in the plug 53. The plug 53 is adjusted by the shoulder 54 to decrease or increase the tension of the spring 59 on the firing pin 56. The firing pin 56 extends through an opening 60 in the receiver 11 to pass through the slots 33 in the bar 31 so that a flattened end 62 thereof can engage the primer in the shell of the .45 cartridge 29. A pin 61 is slidably mounted in an opening in the receiver 11 and engages at one end the shoulder 58 on the firing pin 56 and at the opposite end the spring 39.

In firing the rifle, as the trigger 22 is pulled, it moves the lever 44 on the pivot 45 against the action of the spring 47. The lever as it moves disengages the dog 43 from the teeth 42 with which it is engaged. This action permits the spring 35 and plunger 34 to push the magazine 27 through the chamber 23. As the spring 35 pushes the magazine 27, the end 62 of the firing pin 56 rides over the teeth 32 in the bar 31. As the pin 56 rides over the teeth 32 the shoulder 58 engages the pin 61 which forces the spring 39 downward to disengage the dog 37 from the notches 36. As each of the cartridges 29 is fired, the firing pin 56 rides over the teeth 32, firing each cartridge until the trigger 22 is released to stop the magazine 27 from being pushed outwardly of the receiver 11.

When all of the cartridges in the magazine 27 have been fired, the magazine 27 will be ejected by the spring 35. When the the magazine 27 has been ejected from the receiver 11, the bar 31 is removed, thus empty shells are removed and live cartridges are replaced in the magazine 27 after which it can again be inserted into the chamber 23 in the receiver 11 by grasping the button 57 on the firing pin 56 and pulling the firing pin outwardly so that it will not engage the bar 31.

The trigger 22 and pistol grip 20 are offset to the left of the axis of the rifle 10 to compensate for the action of the lever 44. The cartridges 29 remain in the magazine 27 until it is ejected from the chamber 23 in the re-

ceiver 11 and should one of the cartridges misfire, the rifle will still fire, since the action of the rifle depends upon the expansion of the spring 35.

It is believed that from the foregoing description that the structure and manner of operation of the rifle embodying the invention will be clear to those skilled in the art and it is to be understood that changes in the minor details of construction, arrangement and combination of parts may be resorted to provided they fall within the spirit of the invention and the scope of the appended claim.

Having thus described the invention what is claimed as new and desired to be secured by Letters Patent is:

A rifle having a receiver having a chamber therein; a magazine having notches in the front face thereof, a transverse slot in the rear face thereof, and a plurality of cartridge-receiving openings extending forwardly through the same from the inner portion of said slot; a bar slidable in said slot and having teeth extending rearwardly; said teeth each having an opening therethrough, an L-shaped lever mounted in said receiver; spring means urging one end of said L-shaped lever into contact with said notches; a trigger mounted in said receiver and operable to disengage said L-shaped lever from said notches; said magazine having a second series of notches extending transversely in the bottom thereof; a spring-pressed dog in

said receiver normally engaging said second series of notches; a firing pin forwardly and rearwardly slidable in said receiver and having its forward end receivable through the openings in said bar; means operable by each reciprocating motion of said firing pin to release said dog; a spring mounted in said receiver for normally urging said firing pin forwardly to contact cartridges in said magazine; said teeth on said bar acting to alternately move said firing pin rearwardly against the action of said last-mentioned spring and to release said firing pin for forward motion by said last mentioned spring; and a spring-pressed follower attached to said receiver and bearing against one end of said magazine.

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