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J. H. CARITHERS

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MULTIPLE CLIP MAGAZINE FOR RIFLES

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Fig. 1.

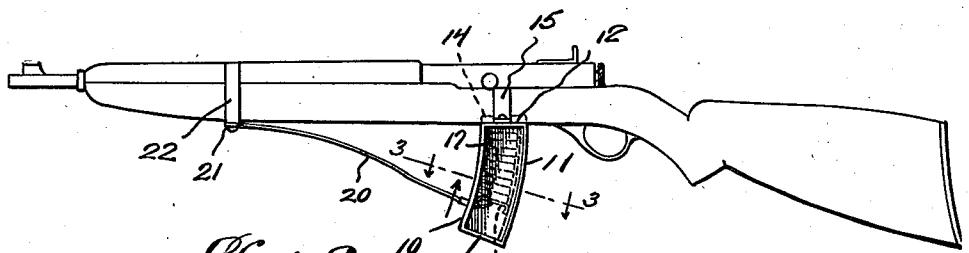


Fig. 2. 10

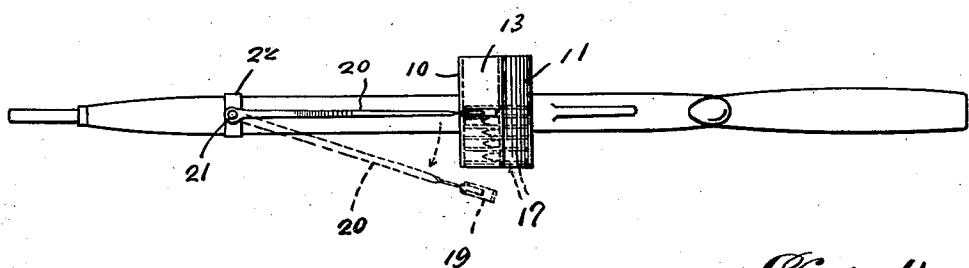


Fig. 4.

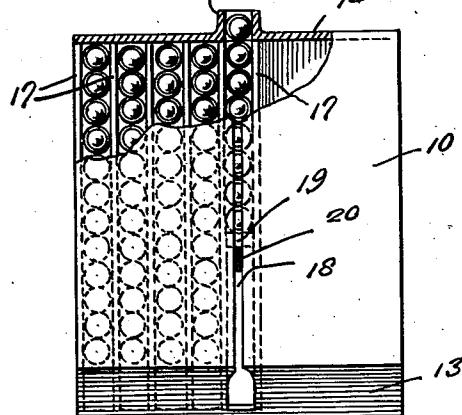
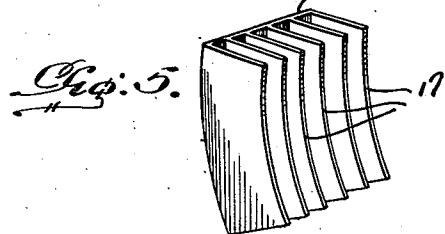
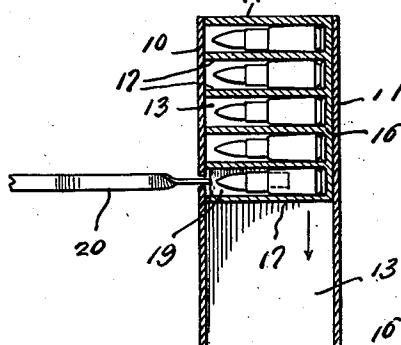


Fig. 3.



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UNITED STATES PATENT OFFICE

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MULTIPLE CLIP MAGAZINE FOR RIFLES

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Application March 3, 1942, Serial No. 433,215

1 Claim. (Cl. 42--6)

The present invention relates to rifles and comprehends the provision of a multiple clip magazine therefore of maximum capacity, and one constructed and designed to eliminate undue weight and bulk.

One of the chief characteristics of the instant invention resides in the provision of a multiple clip magazine for rifles, which is comparatively small and compact in construction, and wherein the cartridge clip is designed to hold the greatest number of cartridges possible for a magazine of predetermined size.

In carrying out my invention, I contemplate a cartridge clip constructed to accommodate a plurality of columns of cartridges, and wherein said columns are singly and successively brought into a position for use, and from which position the cartridges of each column are automatically moved one by one to firing position without possibility of jamming.

Another important object of the invention resides in the provision of a multiple clip magazine of the character mentioned wherein the various columns of cartridges can be successively moved into position for use with a minimum of both time and effort.

The nature and advantages of the invention will be better understood from the following detail description when taken in connection with the accompanying drawing, the invention residing in the construction, combination and arrangement of parts as claimed.

In the drawing forming part of this application, like numerals of reference indicate similar parts in the several views, and wherein:

Figure 1 is a side elevation of a rifle embodying the present invention.

Figure 2 is a bottom plan view thereof.

Figure 3 is a section taken on line 3-3 of Figure 1.

Figure 4 is a view in elevation of the multiple clip magazine partly broken away.

Figure 5 is a perspective view of the cartridge clip.

Upon reference to the drawing in detail, it will be noted that the multiple clip magazine constituting the subject matter of the present invention is adapted to be attached to the underside of the rifle and takes place of the usual small clip generally employed with rifles of this character.

The magazine casing itself may of course vary in size without departing from the spirit of the invention, but preferably includes front and rear walls 10 and 11 respectively, a top wall 12 and a

bottom 13. The latter is provided with a cartridge shaped opening for the purpose of reloading the magazine in a manner to be hereinafter described. The top wall 12 of the magazine is provided with a centrally located transverse slot through which the cartridges are singly ejected for use, and the walls of this slot project a slight distance above the top of the magazine as shown and are indicated at 14. When the magazine is associated with the barrel of the rifle, this outlet slot is arranged in communication with the usual cutout 15 in said barrel through which the cartridges are moved upwardly to firing position in registry with the bore of the barrel. By virtue of the construction illustrated it will be observed that the magazine is open at both ends.

Slidably mounted within the magazine, but permanently associated therewith, is the cartridge clip 16 preferably of the construction illustrated in Figure 5. This cartridge clip essentially includes a plurality of parallel vertical chambers defined by a series of partitions 17 as shown. The construction of the cartridge clip is very simple, but the importance of the construction resides in the fact that the various compartments open at the top, bottom and front of the clip as a whole. While the cartridge clip may vary in size without departing from the inventive concept, this primarily depends upon the size of the magazine with which it is used, in that the width of the cartridge clip is preferably equal to approximately one-half of the width of the magazine as shown. By reason of this construction, the invention provides a multiple clip magazine of maximum capacity. In other words, a cartridge clip having the greatest number of cartridge receiving chambers possible for a magazine of predetermined size is provided, thereby increasing the capacity of the magazine to a maximum. Each of the chambers is adapted to receive a column of cartridges, and these columns are of course singly and successively moved into a position for use as the occasion requires. In this connection, the cartridge clip is mounted to slide within the magazine and this can be accomplished with a minimum of both time and effort. After each column of cartridges is brought into communication with the outlet slot 14 in the top of the magazine, said column is moved upwardly in its chamber and the cartridges singly ejected into firing position within the barrel. As each column becomes exhausted of cartridges, the next column is shifted into position for use within the magazine. The magazine casing is

open at both ends to permit the user to insert his hand for the purpose of sliding the clip.

Each column of cartridges is moved upwardly within its chamber by a spring operating in a very narrow slot 18 disposed centrally in the front wall 10 of the magazine. This slot 18 terminates at its upper end adjacent the top wall of the magazine, but has its lower end communicating with the cartridge shaped opening in the bottom 13 of the magazine for a purpose to be presently set forth. The spring is preferably in the nature of a flat spring, being twisted at an appropriate point in its length to enter the slot 18 as shown. By reason of this construction, the slot 18 can be made very narrow and thus prohibit the cartridges from slipping forward. The end of the spring operating within the magazine is indicated at 19, the spring 20 having its opposite end secured as at 21 to a clamp 22 adapted to embrace the rifle as illustrated.

In use of the invention, assuming that the cartridge clip is filled, it initially occupies the position shown in Figure 4 with the innermost column of cartridges in communication with the outlet slot in the top of the magazine. The spring 20 has its end 19 located in this particular chamber beneath the column of cartridges therein, the spring being utilized to support said column of cartridges and move the latter upwardly and thus singly eject the cartridges from the magazine into firing position, and by virtue of the construction illustrated, this is accomplished without jamming. Now, when this particular chamber is emptied, the spring 20 is moved downwardly and out of the magazine passing through the cartridge shaped opening in the bottom of the latter. The user then inserts his hand in the open end of the magazine and slides the cartridge clip to position the next column of cartridges directly beneath the outlet

slot in the top of the magazine. The active end 19 of the spring is then arranged within this particular chamber for use in the manner above stated. This operation is repeated as each chamber becomes empty, and until all the chambers become exhausted. The spring 20 can be very easily manipulated in this manner, and the cartridge clip can thus be shifted to successively move the respective chambers to a position for use as the occasion requires, with a minimum of both time and effort.

The magazine clip can also be quickly and conveniently reloaded, for which purpose it is only necessary to turn the rifle upside down and remove the active end of the spring from the magazine as shown in Figure 2. Each chamber is then reloaded by passing the cartridges through the cartridge shaped opening in the bottom 13 of the magazine.

While it is believed that from the foregoing description the nature and advantages of the invention will be readily understood, I desire to have it known that what is herein illustrated and described constitutes merely one embodiment of the invention, and that such changes as desired may be resorted to as fall within the scope of the appended claim.

What is claimed is:

In a rifle, a magazine carried by the rifle and provided with a transverse slot in the top and a vertical slot in the wall thereof, a cartridge clip, including a plurality of chambers, slidably mounted in the magazine, and adapted to be successively positioned in registry with said transverse slot, and a resilient element one end of which is secured to the rifle, the opposite end being successively engageable in said chambers, through the vertical slot in the wall of the magazine, for singly ejecting the cartridges through 40 said transverse slot.

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