A. C. McCLURE.

REPEATING FIREARM.

APPLICATION FILED AUG. 1, 1913.

1,110,702.

Patented Sept. 15, 1914.

2 SHEETS—SHEET 1.

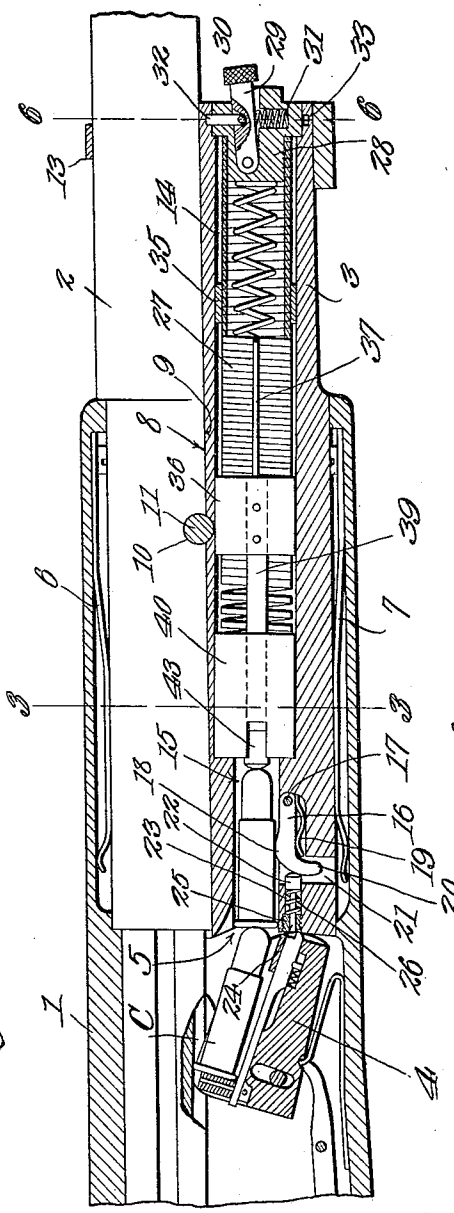


Fig. 1.

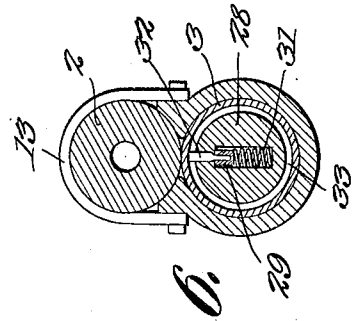


Fig. 6.

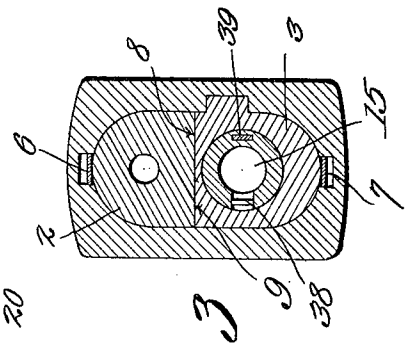


Fig. 3.

Witnesses

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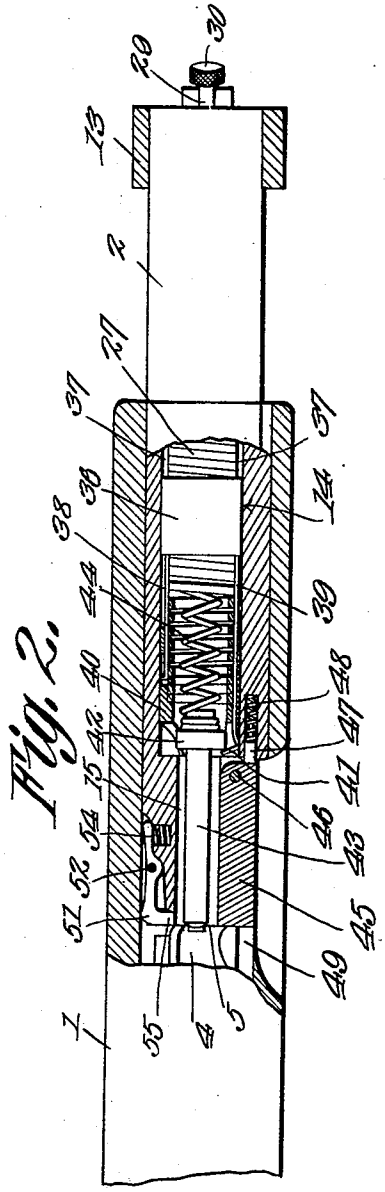


Fig. 2.

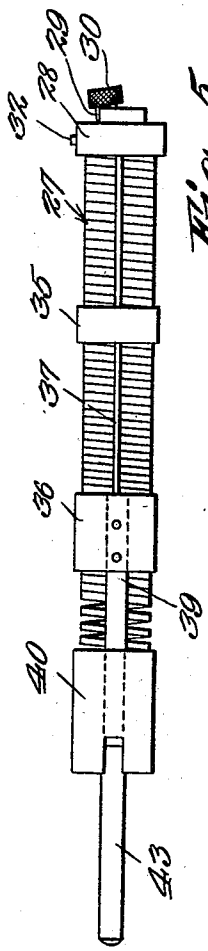


Fig. 3.

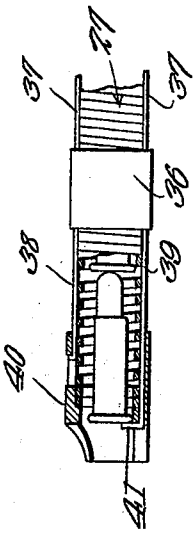


Fig. 4.

Witnesses

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UNITED STATES PATENT OFFICE.

ADOLPHUS C. McCLURE, OF KEITHVILLE, LOUISIANA.

REPEATING FIREARM.

1,110,702. Specification of Letters Patent. Patented Sept. 15, 1914.

Original application filed December 17, 1912, Serial No. 737,307. Divided and this application filed August 1, 1913. Serial No. 782,508.

To all whom it may concern:

Be it known that I, ADOLPHUS C. McCLURE, a citizen of the United States, residing at Keithville, in the parish of Caddo and State of Louisiana, haye invented a new and useful Repeating Firearm, of which the following is a specification.

The present invention relates to improvements in repeating fire arms, the present application being a division of an application filed December 17, 1912, Serial No. 737,307, one object of the present invention being, the provision of a magazine, whereby a plurality of cartridge holders may be inserted therein without the necessity, of loading the same through the receiver as is customary, and thus providing means, whereby a plurality of such holders may be provided, and be ready at any time for introduction within the magazine after the removal threfrom of the empty holder.

A further object of the present invention, is the provision of a cartridge holder, for holding a plurality of cartridges, and insertible within the magazine of a fire arm, the body portion of which is resilient and which is permitted a certain amount of flexing when filled, there being provided therewithin a spring cartridge follower for feeding the respective cartridges toward the receiver and into the elevator of a breech mechanism, the same being bodily removable with the holder when it is emptied and a filled holder inserted in lieu thereof.

With the foregoing and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawings:—Figure 1 is a sectional view through the forward end of the receiver, and a portion of the barrel of an automatic fire arm with the present magazine in operable relation thereto. Fig. 2 is a transverse longitudinal sectional view through the discharging end of the magazine cartridge holder. Fig. 3 is a section taken on line 3—3 of Fig. 1. Fig. 4 is an enlarged detail sectional view of the rear end of the cartridge holder, a portion being in section to show the method of retaining the cartridges therewithin when the holder is not disposed within the magazine. Figs. 5 and 6 are detail views of the cartridge holder.

Referring to the drawings, the numeral 1 designates the receiver, 2 the barrel, and 3 the main tubular portion of the magazine, the same being disposed in fixed relation to the barrel and to the receiver.

The elevator 4 is disposed to receive the innermost cartridge C from the outlet end 5 of the tubular member 3, the cartridges normally assuming the position as shown in Fig. 1 when being fed therethrough into the receiver, said view illustrating the position of the parts when a cartridge is in the barrel and the fire arm is in position for firing.

As clearly shown in Figs. 1 and 2, the barrel 2 and the tubular member 3 of the magazine fit snugly against each other and are insertible within the socketed end of the receiver, the oppositely disposed flat springs 6 and 7 being carried by the receiver at this portion and for contact with the upper and lower portions of the barrel and magazine 2 respectively, to retain these parts within the receiver. The adjacent faces 8 and 9, respectively, of the barrel 2 and the magazine tube 3, are flattened and fit snugly together as shown in Fig. 3, an aperture 10 being formed by recessing these cases and constituting means for the reception of the locking pin 11, which is disposed to be projected through the barrel receiving portion of the receiver and thus lock the barrel and magazine tube securely within and to the receiver, a pivoted bail (not shown) being carried upon the outer end of the pin to permit of the proper manipulation of the pin. By this means the barrel and magazine holding tube are readily detachable from the receiver by simply removing the pin 11, additional means in the form of an embracing member 13 being provided at the forward end of the magazine tube to hold the same relatively to the barrel.

The magazine holding tube 3, is provided with the magazine receiving enlarged bore 14, terminating in the reduced bore 5, forming the directing entrance into the receiver, the catch 16 pivoted as at 17 being carried by the tube 3 with its cartridge engaging lug 18 normally held by the spring 19 pro-

jected within the bore 5 and in the path to engage the cartridge C. The trigger or releasing end 20 of the catch 16 is projected within the recessed portion 21 of the tube 3 and in the path of the spring actuated plunger 22, which is mounted in the bore 23 formed parallel or nearly so to the bore 5 and sealed by the plug 25. This plunger 22 carries the pin 24 which due to the spring 26, is normally projected toward the catch 16.

The removable magazine or holder 27, which is preferably made of flat wire wound spirally, thus being resilient and flexible, is used in connection with the tube 3, and thus renders the necessity of the introduction of the cartridges C through the usual aperture of the receiver into the bore 5 of the tube 3 unnecessary, as any number of these holders may be loaded, and the empty one be removed to be replaced by a filled one. In the outer end of the holder 27 is attached the plug 28, which as shown has mounted therein a pivoted lever 29, having the operating button 30 exteriorly of the plug 28, the spring 31 being provided to normally hold the lever 29 and the locking pin 32 in the position as shown in Fig. 1, to engage the annular slot 33 in the outer end of the tube 3 and thus lock the magazine or holder 27 within the tube and against outward displacement. The body of the holder 27 is reinforced by the intermediate bands 35 and 36, and the longitudinally disposed stiffening wires 37, which are connected at their ends to the plug 28, and the band 36, the same being threaded through the band 35 or between the band 35 and the coiled portion of the holder.

Connected to the band or sleeve 36 and projecting forwardly therefrom is a flat metal guiding arm 38, and a longer cartridge retaining and guiding arm 39. The forward ends of these guiding arms 38 and 39 are disposed for sliding movement at diametrically opposite points within the cartridge directing band or sleeve 40 mounted for inward sliding movement upon the extreme exit end of the magazine or holder 27. The free end of the metal arm 39 is inturned as at 41 and projects to engage the rim of the respective cartridges to retain the last one within the holder 27, while when the magazine is empty as shown in Fig. 2, the end 41 engages the headed portion 42 or the cartridge projecting pin or stud 43 and thus prevents a too far extension of the same within the bore 5 of the tube 3, and at the same time limits the extension of the operating spring 44 of the pin 43. This spring is disposed within the holder 37 and about the inner end of the plug 28, as clearly shown in Fig. 1.

The metal arm 39 being a resilient member and being so anchored as to have the inturned end 41 tensioned outwardly, the sleeve 40 when assuming the position as shown in Fig. 4 will hold such inturned end 41 in the path to engage the rim of the last cartridge inserted within the magazine, thus locking the cartridges in the magazine when the magazine is not in cartridge delivery position or as shown in Figs. 4 and 5. When the magazine is inserted within the tube 3 of the firearm, and is positioned as shown in Figs. 1 and 2, the band or sleeve 40 is moved to the right from the position as viewed in Fig. 4, so that the free terminal or inturned end 41 of the spring arm 39 is freed and moves out of the path of the rim of the cartridge, and thus frees the cartridge to assume the position as shown in Fig. 1, no obstruction being disposed in the path of the respective cartridges as they are finally one at a time fed into the receiver of the fire arm.

In order to permit the introduction of a cartridge within the rear end of the holder 27, when the same is within the tube 3, the receiver 1 is provided with the usual trap (not shown) but as before stated, it is desirable that the holder 27 be removed when empty and a filled one inserted within the tube 3. A stop 45 is pivoted, however, at 46 within the recessed portion formed in the side wall of the tube 3 at the bore 5, the lug 47 thereof being engaged by the spring 48 to normally hold the stop 45 in the position as shown in Fig. 2. By this means the same is permitted to be drawn outwardly and exteriorly through the slot 49 of the receiver, so as before stated, the cartridge may be inserted within the bore 5 of the tube 3 and into the magazine 27, the bullet end of the cartridge being disposed against the outer end of the projector pin 43.

In order to provide a means to prevent the falling out of the cartridges C, when it is in the position as shown in Fig. 1, and after the magazine 27 has been removed and before the insertion of a filled one, the catch 51 is pivoted upon the pin 52 and is bodily carried by the member 3, in one wall thereof, the spring 54, being disposed to hold the catch with engaging end 55 projected within the bore 5 when the tube 3 is detached from the receiver. The engagement of the receiver with the catch 51 depresses the spring and removes the hooked end thereof out of the bore 5 to the position as shown in Fig. 2, when the parts are assembled.

From the foregoing description taken in connection with the drawing, it is evident that the cartridge holder 27 may be filled at leisure, and that any number of the same may be furnished with the fire arm, and when one is empty, that a new filled one may be readily inserted within the tube 3 and that the cartridge that may remain within the bore 5 of the tube 3, will be properly retained therein during the removal of an

empty holder 27 and the reinsertion of a filled one.

What is claimed is:—

1. A fire-arm, including a stock, a receiver, the forward end of which is constructed in the form of a socket, a barrel, a magazine, the adjacent faces of the barrel and magazine being flattened for co-extensive engagement, means for holding the barrel and magazine relative to each other when separated from the receiver, co-acting means carried by the socket of the receiver and the barrel and magazine for locking the barrel and magazine to the receiver, and two oppositely disposed springs mounted within the socket of the receiver for engaging the barrel and magazine respectively to hold the same toward each other.

2. A fire-arm, including a stock, a receiver, the forward end of which is constructed in the form of a socket, a barrel, a magazine, the adjacent faces of the barrel and magazine being flattened for co-extensive engagement, means for holding the barrel and magazine relative to each other when separated from the receiver, the adjacent faces of the barrel and magazine being provided with a transversely disposed aperture, a removable pin insertible through the receiver transversely of the socket and through the apertured portion of the magazine and barrel for locking the parts together, and two oppositely disposed springs mounted within the socket of the receiver for engaging the barrel and magazine respectively to hold the same toward each other.

3. A repeating fire arm, having a receiver, a barrel, a magazine retaining tube carried by the barrel, a flexible resilient cartridge magazine insertible within the tube from the outer end thereof, and co-acting means carried thereby and the tube for locking the magazine against outward displacement.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

ADOLPHUS C. McCLURE.

Witnesses:
J. V. Attaway,
Miles H. McKee.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."