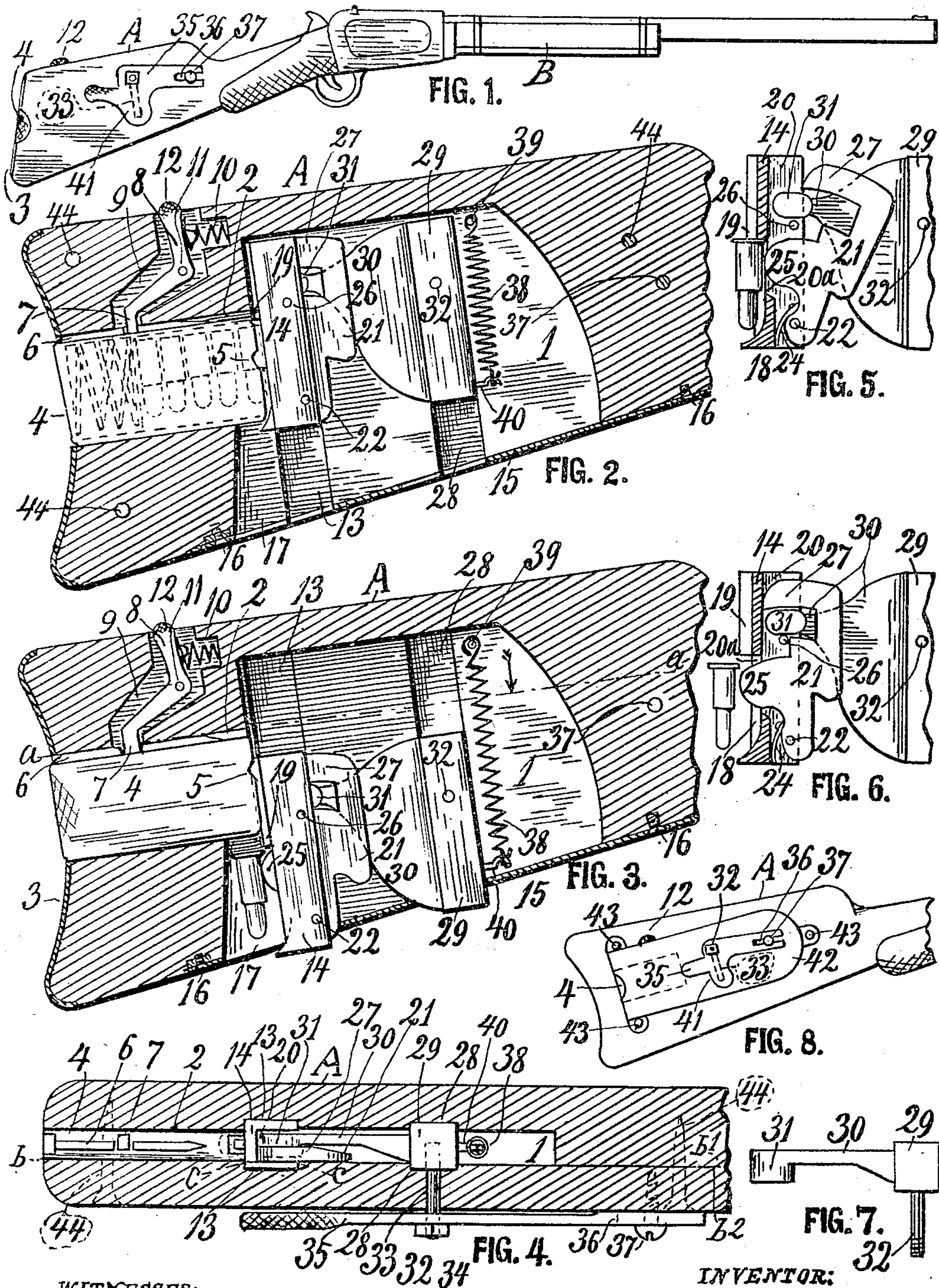


W. J. RODGERS.
STOCK MAGAZINE FOR SINGLE SHOT RIFLES.
APPLICATION FILED JULY 26, 1909.

950,515.

Patented Mar. 1, 1910.



WITNESSES:

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UNITED STATES PATENT OFFICE.

WILLIAM J. RODGERS, OF LEWISTON, MINNESOTA.

STOCK-MAGAZINE FOR SINGLE-SHOT RIFLES.

950,515.

Specification of Letters Patent.

Patented Mar. 1, 1910.

Application filed July 26, 1909. Serial No. 509,726.

To all whom it may concern:

Be it known that I, WILLIAM J. RODGERS, a citizen of the United States, residing at Lewiston, in the county of Winona and State of Minnesota, have invented a new and useful Stock-Magazine for Single-Shot Rifles, of which the following is a specification.

My invention relates to stock magazines for single shot rifles, and particularly contemplates the provision of such a mechanism which will enable the rifleman to easily and quickly obtain a new cartridge without reaching in his pocket or cartridge belt for the same.

The object of my invention is to provide a mechanism which will be positive and unfailing in its action and which will assist in balancing the fire-arm, and will still be easy to produce and operate.

The invention is therefore a further improvement upon the invention described in my Letters Patent No. 919,641, issued by the United States on April 27, 1909.

Further objects and advantages will appear in the course of the following description, in which reference is made to the accompanying drawing, forming a part of this specification, and in which,

Figure 1 is a side elevation of a single shot rifle, provided with my improved stock magazine. Fig. 2 is a vertical longitudinal sectional view through the stock thereof, and on an enlarged scale, about as on the line $b-b^1$ of Fig. 4. Fig. 3 is a similar view to Fig. 2 and illustrating the reciprocating cartridge block at its opposite limit of movement. Fig. 4 is a horizontal longitudinal sectional view through the stock on the line $a-a$ of Fig. 3. Fig. 5 is a side elevation of the cartridge engaging and moving mechanism in the raised position the same occupies in Fig. 2, the cartridge block being intersected on the line $c-c$ in Fig. 4. Fig. 6 is the same as Fig. 5, only that the mechanism is in its lowered position, the same as in Fig. 3, and therefore the cartridge ejecting lever is in a different position. Fig. 7 is a top view of the actuating block seen to the right in Figs. 5 and 6. Fig. 8 is a side elevation of a gun stock with the device mounted upon the side of the stock, as a modification especially applicable where the device is to be applied to guns already in the market or in use.

In the practical embodiment of my inven-

tion, I provide a stock A of a single shot rifle B, with an enlarged chamber 1 cut therein, parallel with the flat sides thereof, and with a reduced communicating chamber 2 extending from and through the butt plate 3, at the end thereof to said chamber 1. Within the communicating chamber 2 I arrange the ordinary form of metal cartridge clip 4, composing a casing having a spring-pushed plate therein for feeding the cartridges toward the delivery end 5, and further provided upon its upper edge with a longitudinal shoulder 6, having a cut out portion with which is adapted to engage the lower angular nose 7 of an intermedial pivoted locking lever 8, when said cartridge clip is locked in position within the chamber 2 with its delivery end 5 projecting slightly within the chamber 1. The locking lever 8 is mounted within a channel 9 in the stock, communicating with the chamber 2, and provided with a coil spring 10 mounted therein to rock the said lever upon its pivot 11 to force its nose 7 downwardly; said lever being further provided with a knurled upper end 12 projecting slightly above the surface of the stock, and by which the same may be reversely rocked upon said pivot to withdraw its nose 7 from engagement with the recessed shoulder of the cartridge clip 4 preparatory to removing the same for refilling.

Mounted within the chamber 1 to reciprocate therein within a cut out or channel 13 in the walls thereof, is a cartridge feeder 14 having its path of movement parallel with the delivery end 5 of the cartridge clip 4, and at substantially right angles to the bore 2 for a distance above and below said clip 4.

The chamber 1 is partially closed by a plate 15 spanning the same and secured to the stock by screws 16, said plate being cut away at 17, adjacent the end of the delivery movement of the cartridge feeder 14, to provide for delivery of the cartridges there-through.

The cartridge feeder 14 is provided in its lower portion facing the cartridge clip 4, with a cut out portion 18, for the reception of a cartridge to be withdrawn from the clip 4 by the lower end of the central projecting rib 19, extending from said block above said cut out portion. Upon its opposite face the block 14 is provided with a longitudinal channel 20 and with an open-

ing 20^a extending therethrough from said channel 20 and communicating with the upper half or so of the cut out portion 18.

Pivotally mounted within the longitudinal channel 20 is an ejecting lever 21 having its pivot pin 22 extending transversely of said channel at the lower end thereof, and being provided with a leaf spring 24 within said channel to force said lever inwardly therein. The said lever 21 is provided with a cam 25 adapted to project through the opening 20^a and into the cut out portion 18 when the said lever 21 is entirely within the channel, or in its upright position, the inward movement of said lever being limited by a transverse pin 26 traversing the upper portion of the channel 20. The upper free end of the ejecting lever 21 is provided with a hooked nose 27, for a purpose to be hereinafter described. Sliding in another channel 28 in the stock, and parallel to the cartridge feeder 14, is an actuating block 29, having an arm 30 with a lateral projection 31, which is disposed within the channel 20 and reciprocates the cartridge feeder by acting alternately downward upon the pin 26 and upward against the hook 27. The block 29 is at one side provided with a stud 32, which protrudes out of a slot 33 formed in one side of the stock, parallel to the movement of the block. Upon the outer end of the stud is pivotally engaged and retained by a nut 34 an operating lever 35, whose rear end is bifurcated at 36 to slide and swing on a headed stud 37 when the rear end of the lever is swung downward by the operator's thumb or upward by a coil-spring 38, which is attached to a pin 39 inside the stock and a hook 40 fixed in the block 29. It will be observed that the operating lever is provided with a shield 41 which at all times covers and conceals the slot 33.

In the operation of the invention, it being assumed that the cartridge clip 4, with cartridges in it, has been inserted within the bore 2 and locked in position by the member 8; the spring in the cartridge clip being stronger than the spring 24 which holds the ejecting lever in normal position, the ejecting lever is by the cartridge contacting with it thrown to the inclined position shown in Fig. 5, thus allowing the rib 19 to engage the flange and partly the upper end of the cartridge; the operating lever 35 being now swung downwardly the head or projection 31 of the arm 30 presses upon the pin 26, the rib 19 carries the cartridge downward until it passes the next cartridge in the clip and is thus released from the pressure of the spring in the clip, and as it is at the same time in line with the opening 17, the spring 24 throws the ejecting lever into upright position, and the cartridge is thus by the cam 25 pushed into the opening 17,

from which it drops into the hand of the operator; and as the operating lever is released, the spring 38 returns it and both blocks 14 and 29 to their normal upper position; in this upward movement the rib 19 resists the cartridges and the spring action on them in the clip, until the rib gets above the adjacent cartridge, when the latter will push the ejecting lever into the inclined position shown in Fig. 5, and the device is ready for operation to deliver the next cartridge, and so on.

In the modification shown in Fig. 8, is illustrated one of many ways in which the device may be attached to the gun without inserting it within the stock. In said view is shown how a flat light metal casing 42 may be secured by screws 43 upon the side of the stock and contain the entire mechanism of the device, just the same as it is contained in the chambers 1 and 2 in Figs. 2, 3 and 4. Another way to connect the device with guns already manufactured, or even being manufactured, is to saw out a portion about like that below the line $b-b^1-b^2$ in Fig. 4, fit the mechanism into the stock and then secure in place the same or another piece of wood, by screws placed about as indicated at 44 in Figs. 2 and 4.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a cartridge holding and delivering device for single shot rifles, the combination of a rifle stock provided with a chamber having a discharge opening through its bottom, a magazine cartridge holder mounted adjacent to and communicating with said chamber, a cartridge feeder movable within said chamber to withdraw and convey cartridges from said holder, a spring-actuated ejecting lever mounted in connection with said feeder to discharge the cartridge therefrom through said discharge opening; said chamber having in one side a slot parallel to the movement of the feeder, and said feeder having a stud extending outward through the slot, an operating lever mounted outside the wall of the chamber and engaging said stud; said operating lever having one end pivoted and provided with a longitudinal slot on the pivot, and its other end adapted for manipulation by the operator's fingers in one direction a spring being arranged to return the lever and feeder in the other direction.

2. In a cartridge holding and delivering device for single shot rifles, the combination of a rifle stock provided with a chamber having a discharge opening through its lower portion, a magazine cartridge holder mounted adjacent to and communicating with said chamber, a cartridge feeder movable within the chamber to withdraw and convey cartridges from said holder, a spring-pressed ejecting lever pivotally

mounted in the said feeder to discharge the cartridge therefrom through said discharge opening; said chamber having in one side a slot parallel to the movement of the feeder, 5 and said feeder having a stud extending outward through the slot, an operating lever pivotally mounted outside the chamber and engaging said stud, said operating lever having a longitudinal movement at its pivot 10 joint to allow it to follow the movement of said stud in the slot, and a shield carried by the operating lever to cover at all times the said slot.

3. In a cartridge holding and delivering 15 device for single shot rifles, the combination of a rifle stock provided with a chamber having a discharge opening, a magazine cartridge holder mounted adjacent to and communicating with said chamber, a cartridge 20 feeder movable within the chamber to withdraw and convey cartridges from said holder, said chamber having two parallel channels, and said feeder comprising a feed block moving in one of said channels close

by the delivery end of the magazine, and 25 having adjacent thereto a rib by which to engage and convey the cartridge, an actuating block moving in the other channel and carrying a rigid arm by which the feed 30 block is reciprocated; a spring-actuated ejecting lever pivotally mounted on the feed block and having a cam by which to eject the cartridge from the block, and at its free end a hook, said arm of the actuating block 35 engaging said hook during the upward movement of the blocks and the feed block during the downward movement, so as to leave the ejecting lever free to be swung by its own spring or by the cartridges emanating under spring pressure from the maga- 40 zine, and means for reciprocating the actuating block, substantially as set forth.

In testimony whereof I affix my signature, in presence of two witnesses.

WILLIAM J. RODGERS.

Witnesses:

J. J. LITCHER,
HATTIE GAGE.