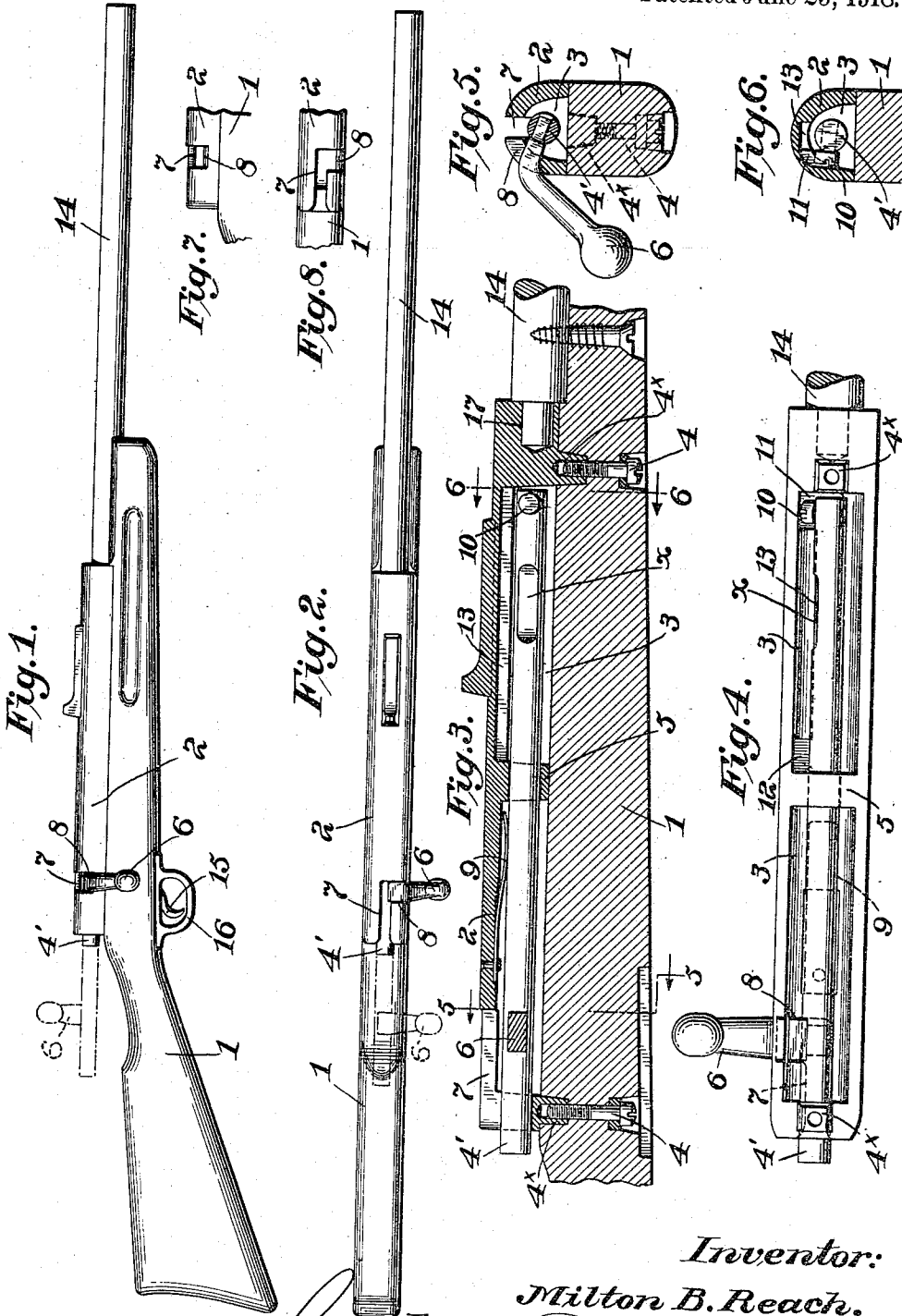


1,270,436.

Patented June 25, 1918.



Inventor:
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UNITED STATES PATENT OFFICE.

MILTON B. REACH, OF SPRINGFIELD, MASSACHUSETTS, ASSIGNOR, BY MESNE ASSIGNMENTS, TO A. G. SPALDING & BROS., OF JERSEY CITY, NEW JERSEY, A CORPORATION OF NEW JERSEY.

DUMMY-RIFLE.

1,270,436.

Specification of Letters Patent. Patented June 25, 1918.

Application filed April 21, 1917. Serial No. 163,669.

To all whom it may concern:

Be it known that I, MILTON B. REACH, a citizen of the United States, and resident of Springfield, Massachusetts, have invented certain new and useful Improvements in Dummy-Rifles, of which the following is a specification.

It is the object of my invention to provide a dummy rifle by which a recruit may be trained in the manual of arms more thoroughly than heretofore has been possible, without using a regulation form of magazine rifle.

In carrying the invention into practice, I provide an implement of the general shape of a rifle and having a sliding bolt and a handle for manipulating the same, means being provided to place the bolt under resistance in moving substantially equivalent to that to which the standard bolt is subjected in throwing the new cartridge into place so that with this dummy the user may perform the same sequence of movements which are necessary in using a magazine rifle of the approved pattern.

The invention consists in the features and combination and arrangement of parts hereinafter described and particularly pointed out in the claims.

In the accompanying drawings,

Figure 1 is a side view of the dummy rifle.

Fig. 2 is a plan view.

Fig. 3 a detail sectional view taken longitudinally of the bolt casing and adjacent parts.

Fig. 4 is a bottom plan view of a member of the implement.

Figs. 5 and 6 are cross sectional views on lines 5—5 and 6—6 of Fig. 3.

Figs. 7 and 8 are detail views.

In these drawings the stock 1 is of the general form of an ordinary rifle, this being made of wood. Upon the flat upper side of this is mounted a bolt casing or holder 2 which is formed of an elongated metal piece, chambered on its under side at 3, said casing being secured in place by screws 4 passing through the stock into lugs 4* formed with the member 2. This bolt casing has guides for the bolt 4' and in the particular construction shown these guides include a wall, or partition 5 extending across the chamber

in the bolt casing, or carrier, and preferably connected integrally therewith. This guides the inner or front portion of the bolt. The rear end of the bolt is guided by the rear wall of the casing, and at this rear part the casing is slotted along its upper wall as shown at 7, said slot extending clear to the end of the casing and having its walls at the extreme rear end slightly flared. This longitudinal slot in the top wall of the casing has a laterally and downwardly extending branch or extension 8.

This bolt carrier or chambered member is preferably formed by drop forging. The bolt, at a point in advance of its rear end, has a handle 6 projecting in a general direction laterally therefrom, adapted to extend out through the slot 7 in the top of the casing or chambered member, and when the bolt is "closed" or shot forward and locked the said handle extends out through the downward extension or branch 8 of this slot.

Various means may be provided for limiting the movement of the bolt and for placing the same under resistance substantially the same as that which is encountered in the use of a regulation rifle in thrusting a new cartridge into place ready for firing, but in the particular form shown I employ a leaf spring 9 seated against the upper wall of the casing and pressing upon the bolt, and for limiting the rearward movement of the bolt I provide a projection 10 at its forward end which comes against the partition 5. In order to allow the bolt to be turned when in its forward position, the wall of the casing is recessed at 11 on its inner face, said recess extending laterally and downwardly. The inner side of the upper wall portion of the casing is grooved at 13 longitudinally to receive this projection. This stop, or projection, is formed separately from and attached to the bolt and in order to permit assembling, the bolt is thrust forward until its end lies in the recess of the casing beyond the partition 5, it being understood that the casing is now detached from the stock so that access may be had to its interior from its under side, whereupon the projection is attached in place. The bolt is then positioned to make the projection regis-

ter with the recess 12 on the inner side of the casing wall and this permits the projection to move down into line with the groove 13 when the bolt is turned to its position for operation.

The dummy barrel 14 is made of wood and is of solid cylindrical form. It has a reduced end seated in a socket 17 in the casing or it may be otherwise held.

In manipulating the implement the user grasps it in his left hand and then by grasping the handle 6 with his right hand he can "open", "close", or "lock" the bolt in place by going through the movements like those necessary with the regulation magazine gun and the recruit can thus acquire dexterity in working the bolt of a rifle to discharge the shell and load a new cartridge. The casing together with the bolt, its handle and the dummy trigger 15 and guard 16 being made of metal, add materially to the weight of the implement, a desirable feature in presenting conditions like those met with in handling the regulation rifle.

It has been said above that the projection 10 on the bolt working in the guide groove 13 of the casing prevents the bolt from being turned when the bolt is retracted far enough to cause its handle to leave the longitudinal slot 7 of the casing. However, the presence of the recess 12, when this is used, and in some constructions it may be omitted, render it desirable to employ additional means for restraining the rotation of the bolt when in its extreme rearward position, at which time the projection 10 is registering with the recess 12 and then offers no resistance to the turning of the bolt. To hold the bolt at this time under ordinary conditions, I provide a flat place α on the bolt which is borne upon by the leaf spring when the bolt is wholly retracted and this restrains the bolt from turning.

It will be observed that when the bolt is drawn all the way back its handle leaves the slot 7 and at this time the bolt is held from turning by the means above mentioned, and the handle thus will be kept in alignment with the slot 7 to enter the same when the bolt is thrust forward or "closed". The bolt can be turned only when it is moved to its extreme forward position with the handle in line with the branch slot 8 and with the projection 10 in line with the lateral recess 11 in the inner wall of the casing.

The importance of providing an inexpensive construction in an implement for use as a dummy is apparent and by providing the main element of the construction, *i. e.* the bolt casing of a form that it can be made as a drop forging giving the proper construction as a support for the movable parts and giving weight to the implement enables me to attain the end sought.

The implement may be weighted to come

up to that of the regulation arm by the use of lead in the barrel portion or at other points in order to distribute the weight like in an ordinary arm.

I claim:

1. In combination, the stock, a casing secured thereto having a chamber with a partition intermediate thereof, said casing having a slot extending from its rear edge forwardly and having a front lateral extension, a bolt guided at the rear end of the casing and in said partition, and having a stop at its front end to engage said partition, and a handle on the bolt to work in the slot and its extension, substantially as described.

2. In combination, a stock, a casing having a slot with a rear open end, and a lateral front extension, a bolt guided in said casing and having a handle to work in the slot and its extension and to leave said slot when the bolt is retracted, a projection on the front end of the bolt, said casing having guide means for receiving the projection to prevent rotation of the bolt when the handle is free from the slot, said casing having a free space corresponding to the forward position of the bolt and a free space corresponding to the rearward position of the bolt to allow the same to be turned when in either position, the one to permit the bolt to be locked and the other to permit the projection to be assembled with the bolt, substantially as described.

3. A dummy rifle comprising a stock, a bolt, a handle thereon, a casing having a longitudinal and lateral guide for the handle and means for placing the bolt under resistance substantially equivalent to that offered by a cartridge in a regulation rifle, substantially as described.

4. A dummy rifle comprising a stock, a bolt, a handle thereon, a casing having a longitudinal and lateral slot in which the handle works, and means for placing the bolt under resistance substantially equivalent to that offered by a cartridge in a regulation rifle, said means consisting of a spring pressing upon the bolt, substantially as described.

5. A dummy rifle comprising a stock, a casing secured to said stock of channeled form secured with its open lower side against the stock, a bolt guided in the casing and having a handle, said casing having a guide slot with a lateral extension in which the handle works, said casing with its bolt and the handle being attachable to or detachable from the stock as one body and when removed permitting access to the bolt through its open under side, and screws passing through the stock from the underside into the casing, substantially as described.

6. A dummy rifle comprising a stock, a

casing secured to said stock of channeled form secured with its open lower side against the stock, a bolt guided in the casing and having a handle, said casing having a guide slot with a lateral extension to receive the handle, said casing with its bolt and the handle being attachable to or detachable from the stock as one body and when removed permitting access to the bolt through its open under side, and stop means for the bolt to hold it to the casing, substantially as described.

In testimony whereof, I affix my signature.

MILTON B. REACH.

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