(No Model.)

F. G. FARNHAM.

CARTRIDGE LOADING IMPLEMENT.

No. 249,464. Patented Nov. 15, 1881.

Fig. 1.

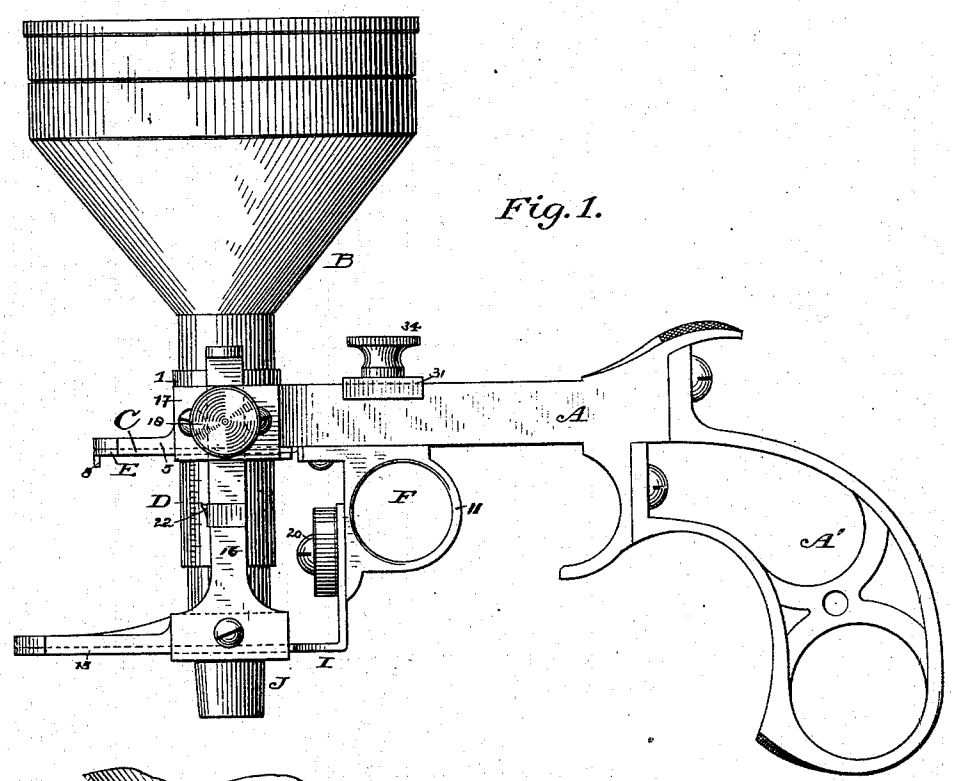
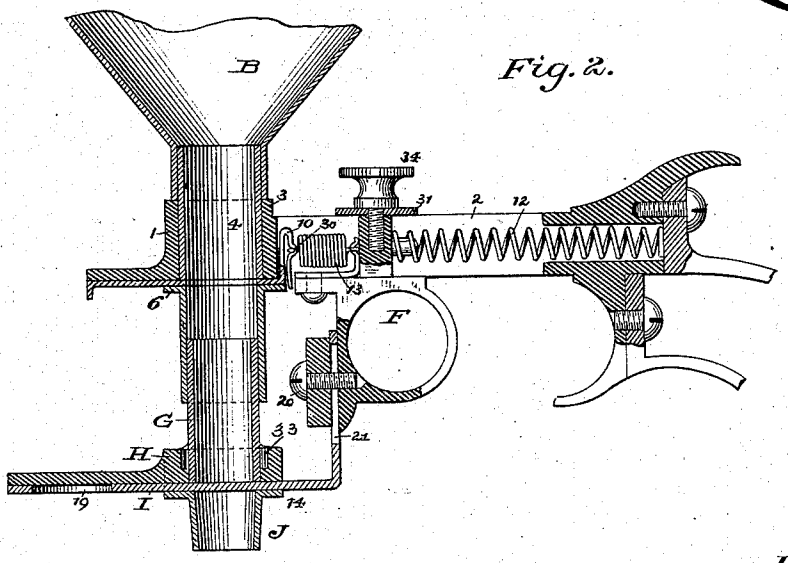


Fig. 2.



Attest:

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UNITED STATES PATENT OFFICE.

FRANK G. FARNHAM, OF WHITE MILLS, PENNSYLVANIA, ASSIGNOR TO HIMSELF AND CHARLES W. DEMAREST, OF SAME PLACE.

CARTRIDGE-LOADING IMPLEMENT.

SPECIFICATION forming part of Letters Patent No. 249,464, dated November 15, 1881.

Application filed March 10, 1881. (No model.)

To all whom it may concern:

Be it known that I, FRANK G. FARNHAM, of White Mills, in the county of Wayne and State of Pennsylvania, have invented certain new and useful Improvements in Cartridge-Loading Implements; and I do hereby declare that the following is a full, clear, and exact description of the same.

My invention relates to an improvement in devices for loading cartridge-shells for breech-loading fire-arms; and its object is to provide a tool capable of automatic action by which such shells are loaded rapidly with the exact amount of powder or shot, the tool being adapted for operation with one hand.

Heretofore loading devices of this class have been complicated structures adapted to be screwed to a bench, and having a holder to receive the shells one at a time for loading, and in consequence of their expense most sportsmen continue to use the old style of loading by hand with a scoop, an uncertain and inconvenient method.

My invention consists in combining with an ammunition-reservoir and telescopic measuring-tubes an upper and lower slide or cut-off operated by a single trigger, the device being mounted on a frame having a pistol-gripe.

It consists, further, in various details of construction and in their combinations, all as fully hereinafter described.

In the drawings, Figure 1 is a side view, and Fig. 2 a central longitudinal section.

In these drawings, A represents a stock or handle, having a pistol-gripe, A′, either cast solid with it or secured in any suitable manner. The handle is provided with an enlarged head, 1, and a longitudinal slot, 2. On the head 1 is a rim or flange, 3, into which fits the tubular lower end of the ammunition reservoir or funnel B. The head is bored out cylindrically, as at 4, and the reservoir is provided with a shoulder which rests upon the edge of the orifice.

C is a flat plate or seat, provided with flanges 5 5.

D is the external sliding measuring-tube, which is provided with a plate, 6, having upturned edges, which are screwed to the opposite sides of the head. Between this plate 6 and the plate or seat C slides the cut-off E, having near one end a circular orifice of the same size as the bore of the head 1, at the lower end thereof. The cut-off E has a stop, 8, at one end, adapted to bear on the edge of the plate 6. The opposite end of the cut-off forms a guide, 10, which is of just sufficient diameter to slide easily in the slot 2 of the handle. The guide 10 is formed by bending the end of the slide upon itself, and a groove, 30, is swaged upon the inner face of the turned-down portion. This portion projects through the slot in the handle a short distance, as shown. Working in the slot is the upper end of a trigger, F, having draw-ring 11, and which is held in its normal position at the forward end of the slot 2 by a spring, 12, contained in such slot. This trigger is also connected to the cut-off B by a spring, 13, attached to the groove 30, a flexible or yielding connection being necessary at this point. A set-screw, 34, passing through a sliding plate, 31, secures the trigger in the slot and permits its free movement. The forward end of the trigger bears against the turned-down end of the cut-off.

G is the interior sliding measuring-tube, of slightly less diameter than the tube D, and adapted to telescope therewith. This tube is attached to a base, H, between which and the plate 14 slides the cut-off I, which is held in place by flanges 15 on the plate H, similar to those on the plate C. The base H is reamed out, as at 33, to give a greater range of movement to the sliding tubes. The plate 14 is rigidly secured to the base or seat H, and is provided with an arm, 16, which passes up and is adjustably secured to the head 1 of the machine by a clip, 17, and set-screw 18.

Near the outer end of cut-off I is an orifice, 19, similar to that in the cut-off E. The inner end of I is turned up at right angles, and is adjustably secured to the trigger F by means of a set-screw, 20, passing through a slot, 21, in the cut-off. To the base H is secured a funnel, J, adapted to enter the shell. The inner tube is thus permitted to slide within the outer by loosening the set-screws 18 20, a pointer, 22, on the arm 16 indicating their relative positions. The stationary tube D is provided with a graduated scale indicating on one side the amount of powder to the charge, on the other

the amount of shot. The movement of the trigger operates both cut-offs simultaneously.

In operating the device the reservoir is filled with either powder or shot, the set-screws 18 20 loosened, and the tubes adjusted, the space between the two cut-offs containing just the amount of powder indicated by the register.

The device is operated very conveniently in connection with an improved loading-board, for which I obtained Letters Patent on the 9th day of November, 1880, wherein the shells are held in a frame, ready for loading; but when that or a similar device is not used the tool is taken in the right hand, the shell being held in the left. The powder from the reservoir runs into the tubes through the opening in the cut-off and falls upon the lower cut-off. The trigger is then pulled back, cutting off the flow of powder from the reservoir and bringing the opening in the cut-off I to register with the funnel J, permitting the powder to run into the shell. The trigger is then released, returning the parts to their former position, the tubes becoming charged again in readiness for the next shell.

It is evident that the device may thus be operated very rapidly with one hand. The spring 13 is of such stiffness that it will not yield until the stop 8 bears on the plate 6 and stops the cut-off.

Having thus described my invention, what I claim is—

1. In a loading implement, the combination of a stock or handle, a reservoir, and measuring-tubes mounted upon such stock or handle, the trigger F, the cut-off E, connected to such trigger by the spring 13, the cut-off I, and the spring 12.

2. In combination, the slotted handle, the trigger F, the upper cut-off, E, flexibly connected to such trigger, the stop 8, and the lower cut-off, I.

3. The sliding tube G, carrying the lower cut-off, I, provided with slot 21, in combination with the adjustable arm 16, the trigger F, and the set-screw 20.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

F. G. FARNHAM.

Witnesses:
F. C. FARNHAM,
F. W. FARNHAM.