

Magazine Fire-Arms.

No. 156,431.

Patented Nov. 3, 1874.

Fig. 1.

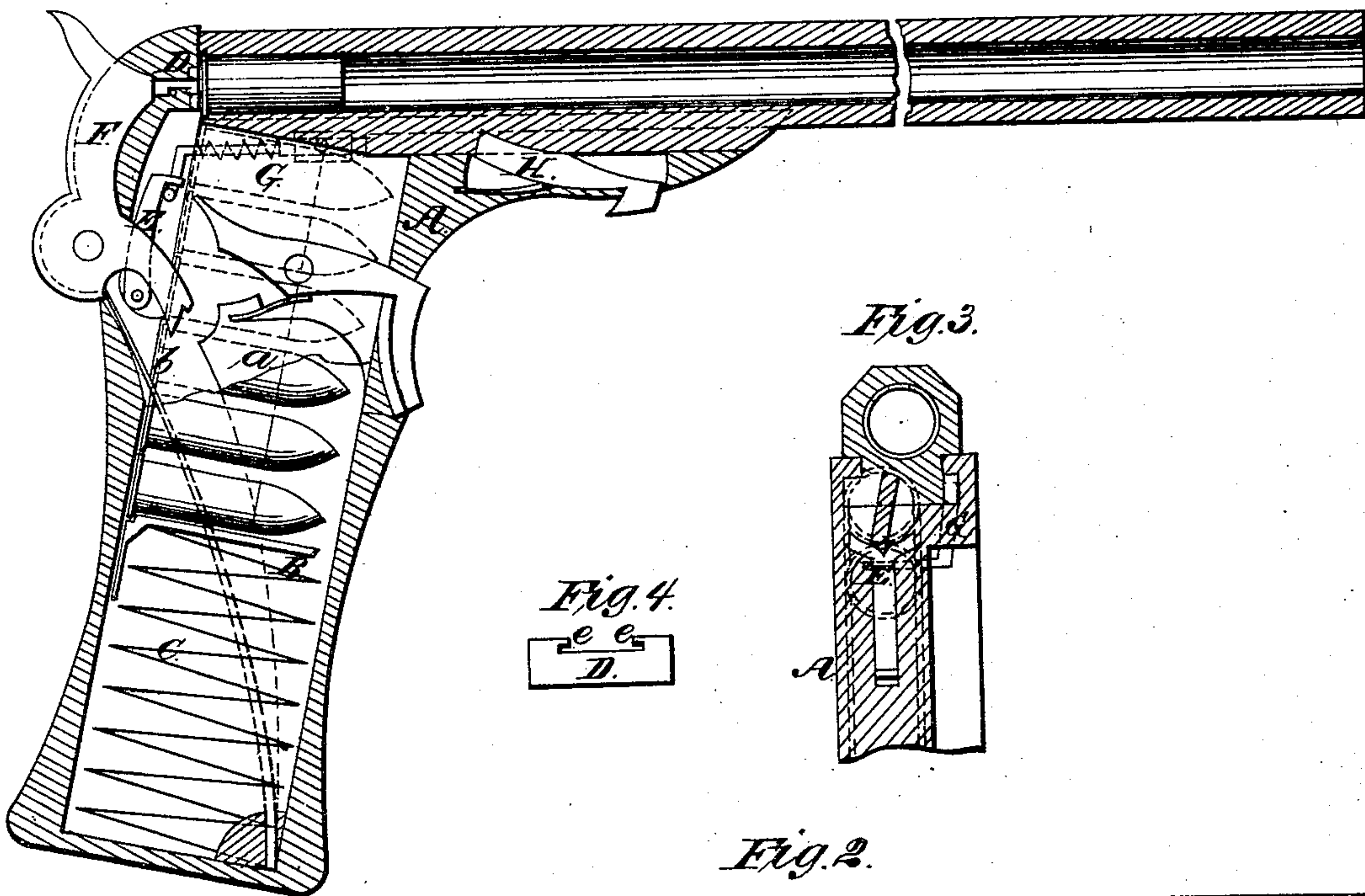


Fig. 3.

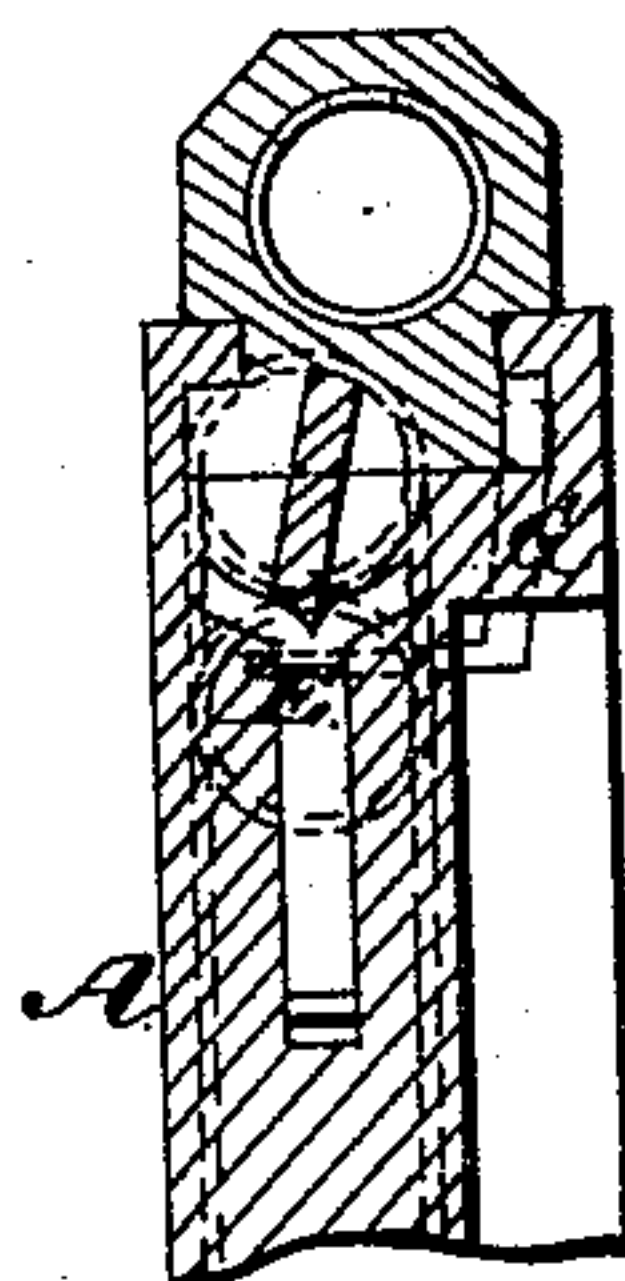


Fig. 4.

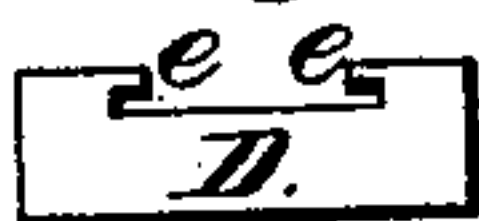
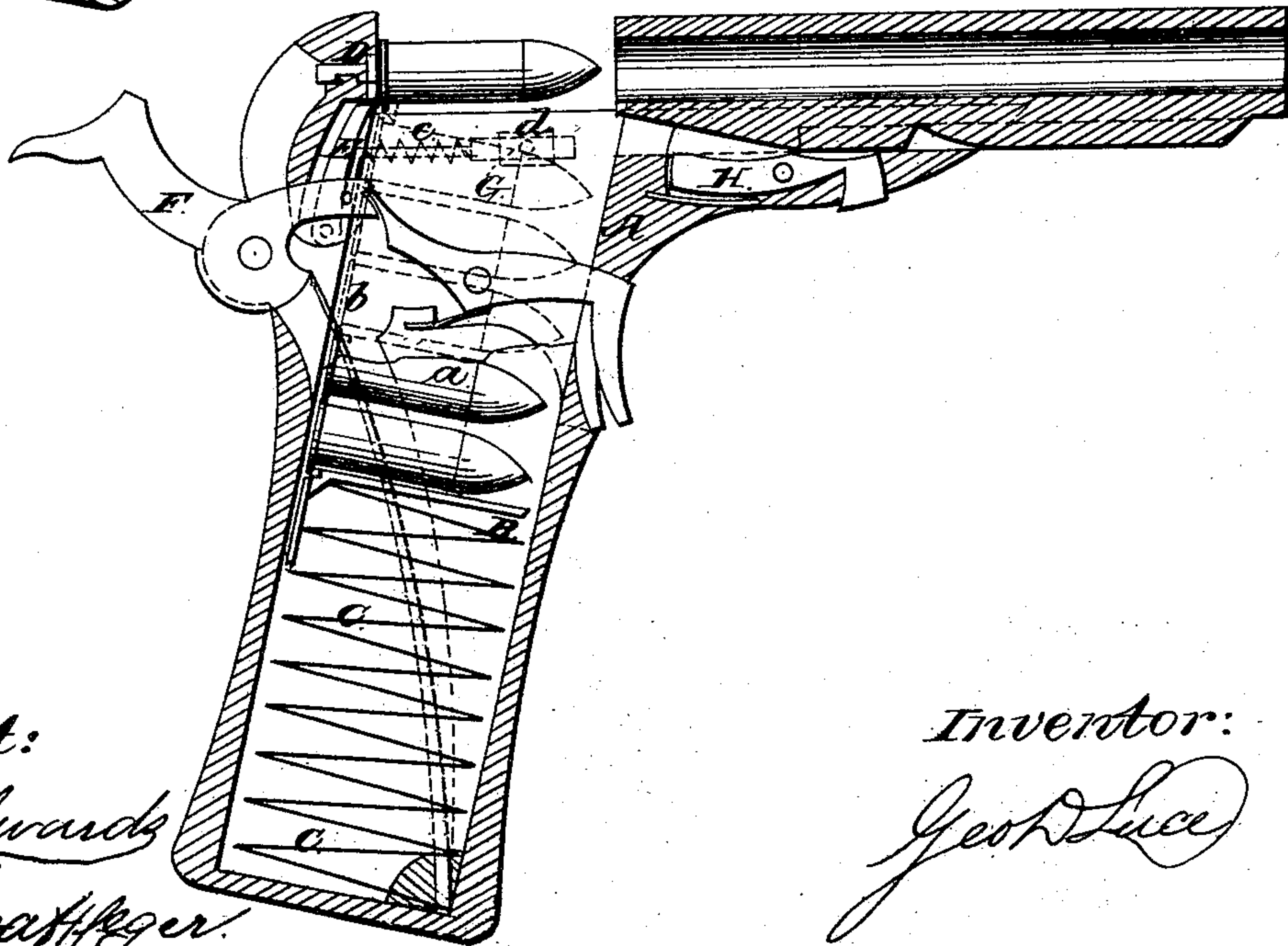


Fig. 2.



Attest:

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UNITED STATES PATENT OFFICE.

GEORGE D. LUCE, OF TALLAHASSEE, FLORIDA.

IMPROVEMENT IN MAGAZINE FIRE-ARMS.

Specification forming part of Letters Patent No. **156,431**, dated November 3, 1874; application filed August 25, 1874.

To all whom it may concern:

Be it known that I, GEORGE D. LUCE, of Tallahassee, in the county of Leon and State of Florida, have invented a new and useful Improvement in Magazine Fire-Arms, of which the following is a specification:

My invention relates to the class of magazine-pistols having the cartridges arranged in the stock or handle thereof; and consists of peculiar devices for throwing out the case of the exploded cartridge, feeding the new cartridge to the barrel, and retaining the cartridges in the magazine during the time the barrel is being loaded. The magazine-chamber contains a follower-slide and flat push-spring for pressing the cartridges upward or toward the barrel.

The stock is placed at such an angle with the barrel that the cartridges may be easily pushed out of the magazine-groove into grooves in the breech-block, which form the shell-extractor, and hold the cartridges parallel with the barrel, and in line with its bore. The barrel slides in grooves the length of a cartridge, and the shell being firmly held by the breech-block, sliding the barrel forward extracts the shell, which is pushed out of the grooves of the breech-block by the outcoming cartridge from the magazine. The cartridges are, one at a time, pushed into the grooves of the breech-block by an arm pivoted on the hammer. There are tips on the end of the arm passing between the rims of the cartridges from the rear end. These tips are slightly hooked to hold the remaining cartridges in the magazine while pushing the front one out. There is also a slide arranged with one end bent and resting in front of the arm that moves the cartridges, and the other end in such a position that a flange of the barrel shall, when the pistol is being closed ready for firing, strike it and push the slide back, thus pushing back the said arm away from the cartridges for allowing it to move free during the downward movement of the hammer; and also allowing the hammer to be set when the pistol is closed without moving the cartridges. This slide is also provided with a thumb-piece, so that it can be pushed back by hand to facilitate loading and unloading the magazine. When the pistol is closed, the barrel holds the cartridges

in the magazine, but when the barrel is thrown forward it releases the said slide, which is thrown forward by a small coiled spring, thus relieving the before-mentioned arm to be thrown forward between the rims of the cartridges by a small spring. The barrel when closed is held so by a catch, all as will be hereinafter more fully described.

In this example the mainspring and sear and spring are represented as being placed at the side of the magazine-chamber, but I propose in practice to place them, if desirable, in other positions—for example, in using a short cartridge, the mainspring and sear could be placed at the rear of the magazine, thus making a flat or "vest-pocket" pistol.

Figure 1 is a longitudinal sectional elevation of my improved pistol, showing the position of the parts while closed. Fig. 2 is the same elevation, but showing the position of the parts while open, and just after the discharge of the shell, a cartridge being in position for entering the barrel. Fig. 3 is a transverse section taken on the rear line of the magazine, the view being in the direction of the barrel. Fig. 4 is a side view of the breech-block.

Similar letters of reference indicate corresponding parts.

A represents the metallic part of stock, containing the magazine-chamber *a*, in which is the follower-slide B, and the flat push-spring C. This magazine-chamber has grooves at the side *b*, in which slide the rims of the cartridges, thus supporting and holding the cartridges perpendicularly with the line of the magazine. The magazine is placed at such an angle with the barrel as will allow of the cartridge being easily pushed out of the grooves of the magazine into supporting-grooves *e*, Fig. 4, in the breech-block D. These grooves of the breech-block support the cartridge by its rim, and hold it parallel with the barrel, and in line with its bore. E represents an arm terminating at one end in two small tips which pass between the rims of the cartridges, Figs. 2 and 3. These tips are slightly hooked for the purpose of holding the remaining cartridges in the magazine while the front one is being pushed forward into the breech-block. The other end is pivoted to the hammer F. The hammer is pivoted on the frame or stock

and in the rear of the magazine-chamber. G represents a slide with its rear end bent and resting in front of the arm E, and its front end so placed that a flange of the barrel shall in closing strike it and press it back, the object being to push the arm E away from the cartridges to allow the hammer free motion in firing, and also allow of its being set when the barrel is closed without moving the cartridges. *c* is a small coiled spring for throwing the slide forward when it is relieved from the pressure of the barrel. *d* is a thumb-piece also attached to the slide, that it may be pushed back by hand to facilitate loading and unloading the magazine. H represents a catch with spring for holding the barrel in position during the operation of firing.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The arm E pivoted to the hammer, and its front end terminating in two tips which can enter the magazine-chamber between the rims of the cartridges, these tips to be hooked for the purpose of holding the remaining cartridges in the magazine while pushing the top one into the breech-block, substantially as specified.

2. The slide G, with the coiled spring *c* and thumb-piece *d*, so placed that when the pistol is being closed or ready for firing, a flange of the barrel presses back this slide, and a bent arm of the slide pushes the arm E away from the cartridges for allowing a free motion to the hammer, the whole substantially as specified.

GEO. D. LUCE.

Witnesses:

C. SCHWERDFEGER,
C. H. EDWARDS.