

(No Model.)

2 Sheets—Sheet 1.

A. BURGESS.
MAGAZINE FIRE ARM.

No. 357,459.

Patented Feb. 8, 1887.

Fig. 1.

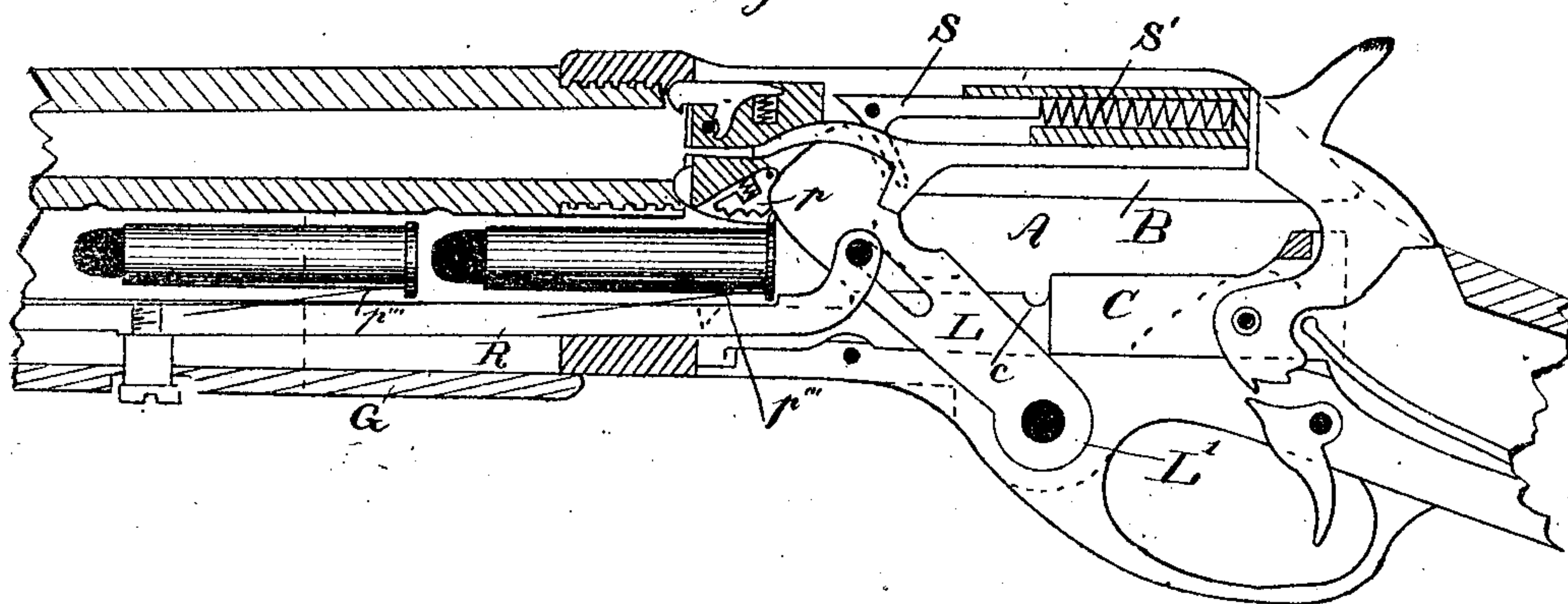
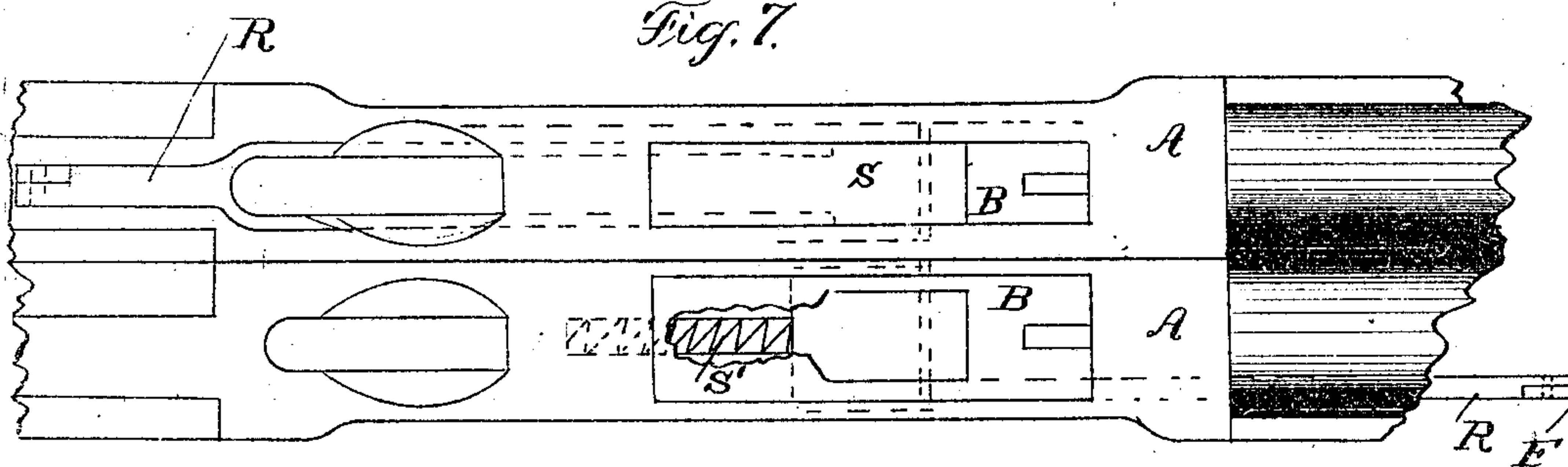


Fig. 7.



Witnesses:

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(No Model.)

2 Sheets—Sheet 2.

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Fig. 2.

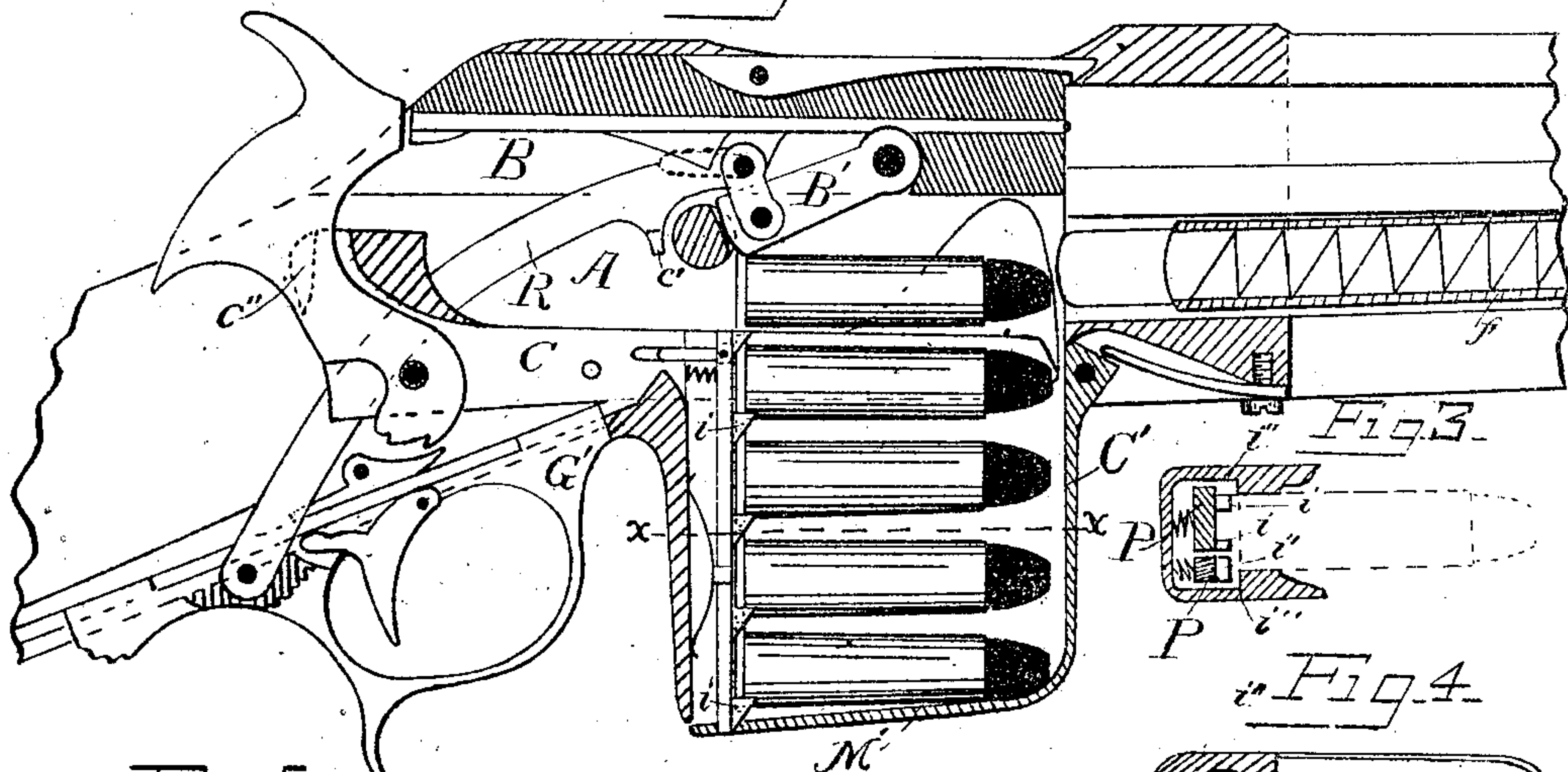


Fig. 5.

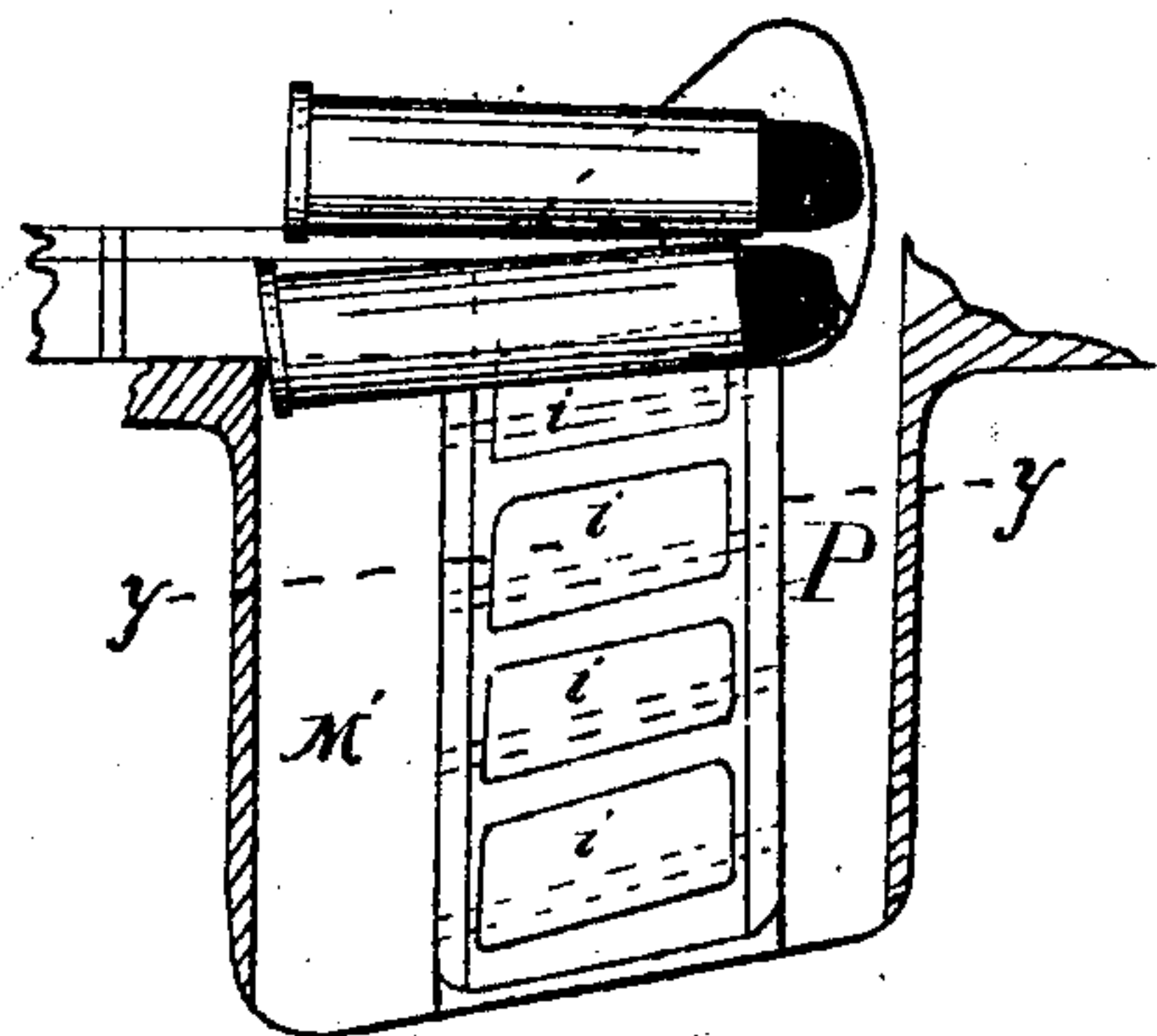


Fig. 6.

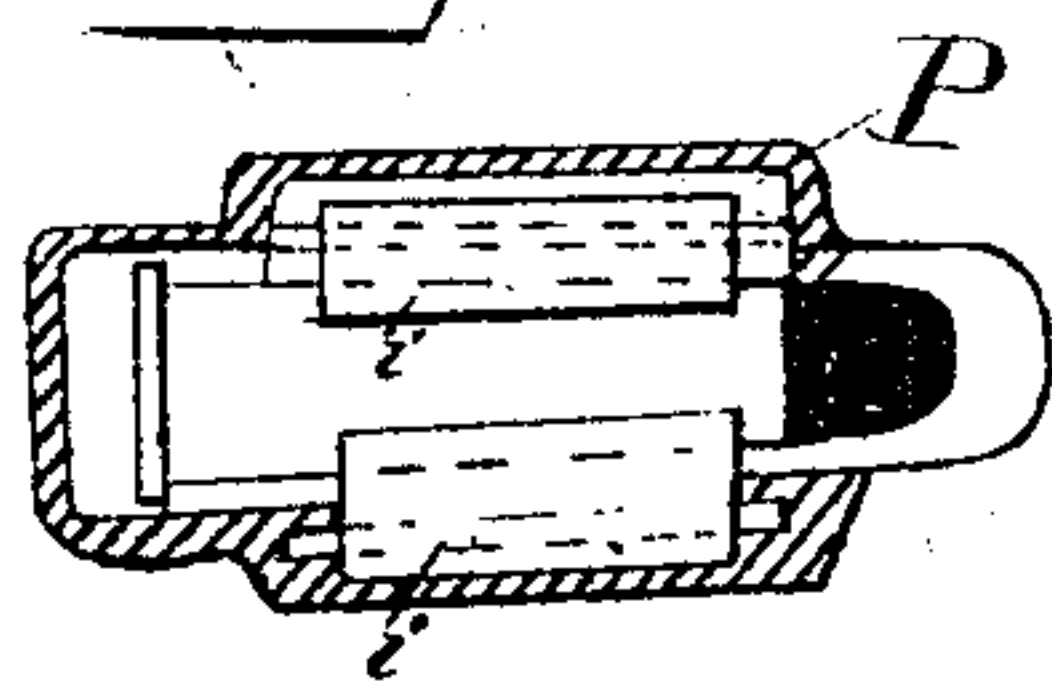


Fig. 8.

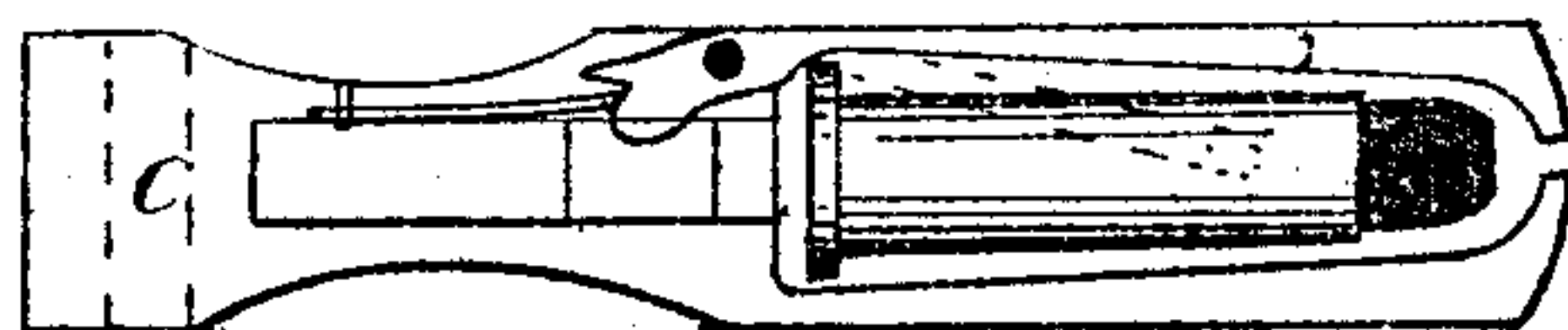
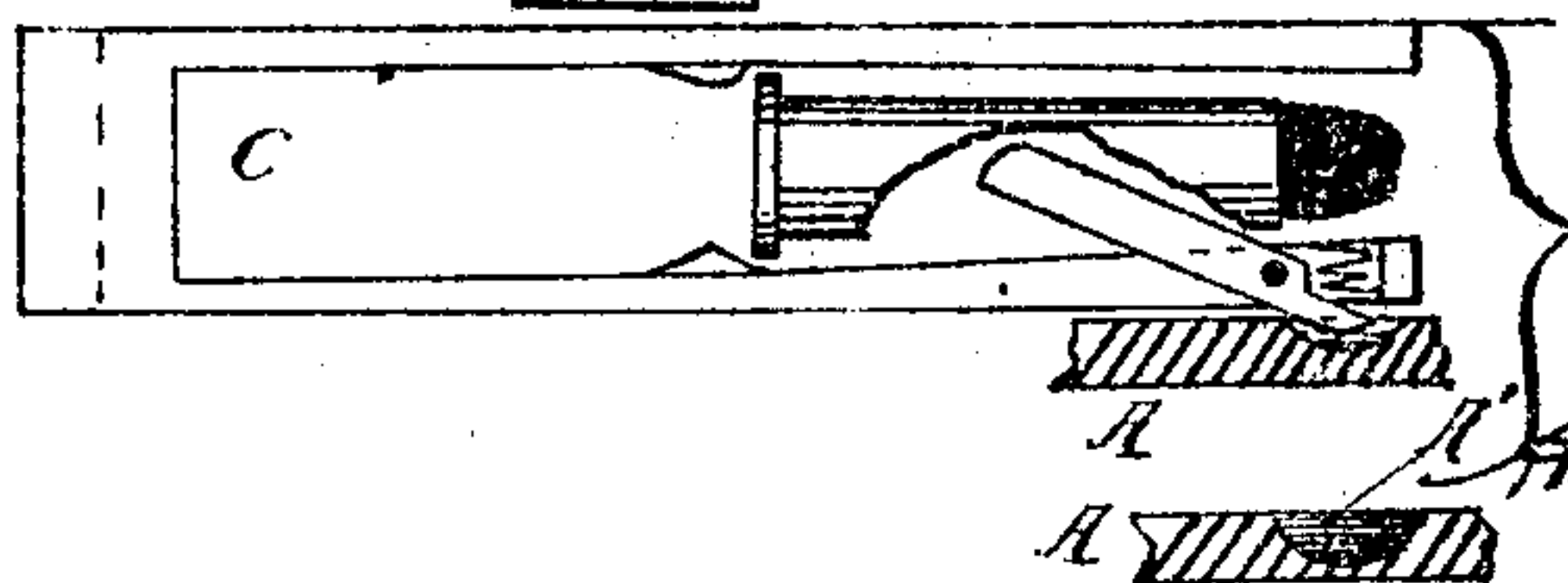


Fig. 9.



Witnesses.

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UNITED STATES PATENT OFFICE.

ANDREW BURGESS, OF OWEGO, NEW YORK.

MAGAZINE FIRE-ARM.

SPECIFICATION forming part of Letters Patent No. 357,459, dated February 8, 1887.

Application filed December 3, 1883. Serial No. 113,436. (No model.)

To all whom it may concern:

Be it known that I, ANDREW BURGESS, a citizen of the United States, residing at Owego, in the county of Tioga and State of New York, have invented certain new and useful Improvements in Magazine-Guns, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to breech-loading and magazine guns, and has for its object improved construction and manipulation of breech mechanism, and also to provide a double-barreled magazine-gun to use both ball and shot cartridges.

This invention consists of various modifications of several inventions shown in my former applications, and other combinations and arrangements of parts, hereinafter more fully set forth, and illustrated by accompanying drawings.

Figure 1 is a longitudinal section, in elevation, of frame with some operative parts of the left-hand side of the double gun of Fig. 7. Fig. 2 is a sectional side elevation of the right-hand side of double gun of Fig. 7, showing the vertical magazine under the arm in position to feed up through the carrier, the left-hand longitudinal magazine being shown under the barrels. Fig. 3 is a cross-section of said magazine on line *xx* of Fig. 2. Fig. 4 is a cross-section of a modification of the same. Fig. 5 is a sectional side view of a modified magazine in which the feed-pawls are arranged in its sides. Fig. 6 is a cross-section of Fig. 5 on line *yy* of Fig. 5. Fig. 7 is a plan view showing the top of this double magazine-gun. Fig. 8 is a top view of the carrier, showing the opening for the magazine to feed through. Fig. 9 is a modification of Fig. 8.

A is the frame of the arm; B, the bolt; C, the carrier; G, an operating-slide; L, a locking-brace.

Other letters of reference indicating corresponding parts will be more fully explained hereinafter.

In Fig. 1 I show the rod R extending from its operating-slide G backward to engage a slot in the brace, so that the said rod may reciprocate in a straight line to open and close the breech. The rod R is also furnished with the springs or pawls *p''' p'''*, which are so arranged as to spring past the flanges of the car-

tridges as the rod moves forward and engage the flanges to force the cartridges rearward as the said rod moves back to open the breech.

Fig. 2 shows gun mechanism and a magazine of the construction herein claimed. The bolt is locked by the brace B', hung in said bolt, and which is connected by a link and the bar R to the sliding guard G', which serves as an operating-lever, and the carrier is raised in the rearward movement of the breech by the projection *c'* on the rod R coming in contact with the abutment *c''* on the carrier above its pivot. The trigger can only be pulled to operate the sear when the breech is closed, and is so formed that a continued pressure or pull on it as the breech is operated by the sliding guard will bring it in contact with the sear, and so fire the gun without further effort as often as the breech is brought into a closed position. I affix an upward-feeding magazine, M', to the frame or to the carrier, and arrange it to feed up through the carrier by means of pawls or springs, or both.

As shown in Fig. 2, the magazine M' is fixed to the bottom of the frame, and the pawl-rods P and P', carrying the engaging-teeth *i i'*, are arranged to engage the butts of the cartridges, which are confined by their flanges in vertical grooves *i''*, in a manner well known. The pawls *i* of rod P are attached to the carrier by a pin or hinge, so that each time the carrier rises it raises the cartridges their width upward, and the pawls *i'* on the rod P' (having no vertical movement) hold them in that raised position.

The carrier is split vertically in its front part, and has spring sides, so as to leave an opening therein for the passage of the cartridge, as shown in Figs. 8 and 9, when said sides are sprung apart, but to hold the cartridge when the sides spring toward each other, so that the top cartridge will be raised by the carrier to a position to feed into the barrel by the closing-bolt in the ordinary manner.

In Figs. 8 and 9 I show a spring-lever hung in the side of the carrier, to enter the opening and separate the upper cartridge from the others. In Fig. 9 said lever is retired from the opening in the carrier by its short arm striking the inclined abutment A' in the frame as the carrier is forced down.

In Fig. 5 I show a modified magazine, in which the pawls are arranged in the sides thereof and raise and hold up the cartridges by engaging their sides instead of flanges, the side rod, P, being operated by the carrier and the pawls \bar{z} hung in the side of the magazine.

The cartridge-box may be fastened to and move with the carrier, in which case the side pawls are preferably used and the fixed pawls attached to the frame, or one set to prevent the cartridges from falling will suffice, as the quick impulse of raising the carrier will raise the whole series of cartridges their width past their respective pawls, which spring in to prevent their return. I arrange a spring-cover to close this magazine, (it may be arranged to swing laterally, if preferred,) as C' in Fig. 2. This magazine may be loaded by pressing the cartridges up sidewise one at a time.

Fig. 7 shows an arrangement of my double-barreled magazine-gun in which the left-hand side is the rifle, and its mechanism is operated by the rod R, which is attached to the breech, as shown in Fig. 2, to couple it to the sliding guard. The right-side shotgun system is operated by a similar rod, R, but extending forward to a lever or slide, as shown in Fig. 1, and I prefer to use the magazine under the barrel for shot-cartridges. In this double magazine-gun it is necessary to operate the two systems by different actions to prevent the parts from interfering with each other, and I prefer to operate one side with the right hand from the rear of the breech mechanism and the other with the left by a grip forward of the frame.

I claim—

1. A magazine fixed to the bottom of the frame of a gun and provided with spring-pawls to hold the cartridges therein, in combination with vertically-reciprocating pawls attached to the carrier to raise the cartridges, substantially as specified.

2. In a gun, a magazine arranged beneath the frame and carrier, in combination with a carrier having a vertical opening through which the cartridges feed into the frame, said carrier being provided with a spring to partly close its opening and hold the upper cartridge, substantially as set forth.

3. In a double-barreled magazine-gun, a frame provided with two independently-moving breech mechanisms, in combination with a magazine parallel with the barrels arranged to deliver cartridges endwise to feed one barrel and a magazine on or in the frame to deliver cartridges sidewise to feed the other barrel, substantially as described.

4. In combination, in a magazine-gun, a single stock, a pair of barrels, a pair of magazines, a separate and independently-operated breech-closing piece for each barrel, and transferring mechanism, substantially as described, whereby the cartridges are transferred from the magazines to the barrels in which they are fired, the combination being and operating substantially as set forth.

5. In a double-barreled magazine-gun, a frame provided with two independently-moving breech mechanisms, in combination with two operating-rods, one extending forward of the frame to connect with its handle and the other extending to a connection with a handle rearward, substantially as described.

6. In a breech-loading gun, a reciprocating bolt, a brace hung in the frame to engage shoulders in the bolt, and thereby lock the bolt forward or move it backward in the frame by a constant bearing on said bolt or shoulders, in combination with a sliding handle below the gun and a rod or link connecting said handle to the movable mechanism of the gun, to unlock, move, and lock the breech by the movement of the sliding handle, substantially as set forth.

7. The combination, with a bolt reciprocating in line with the barrel, of an operating-handle on the small of the stock, reciprocating obliquely thereto, and connections from the handle to the bolt, by which the bolt is made to move backward as the handle moves back and to move forward with the forward movement of the handle.

8. In a fire-arm, the combination, with a bolt reciprocating in the line of the barrel, of a trigger-guard reciprocating obliquely thereto under the stock, and a rod connecting the guard and bolt, so that the bolt partakes of the reciprocating movement of the guard, substantially as described.

9. The combination, in a fire-arm, of a bolt reciprocating in line with the barrel, a handle reciprocating obliquely thereto on the small of the stock, a pivoted draw-rod connecting the handle and bolt, and a locking-brace actuated by said draw-rod to lock and unlock the bolt, substantially as described.

10. The combination, in a fire-arm, of a bolt reciprocating in line with the barrel, a trigger-guard reciprocating obliquely thereto under the small of the stock and carrying the trigger with it, a connection from the bolt to the guard, by which the bolt is moved back with the guard and pressed forward when the guard is pressed forward, and a firing-sear which retains its place in the frame when the trigger moves back, but may be engaged by the trigger when in forward position, substantially as described.

11. In the frame of a magazine-gun, a reciprocating bolt, in combination with a carrier hung below the bolt, said carrier having a vertical opening, and a magazine below the carrier, so arranged as to feed the cartridges upward through said opening in the carrier, substantially as described.

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

ANDREW BURGESS.

Witnesses:

C. W. BROWN,
B. F. MORSELL.