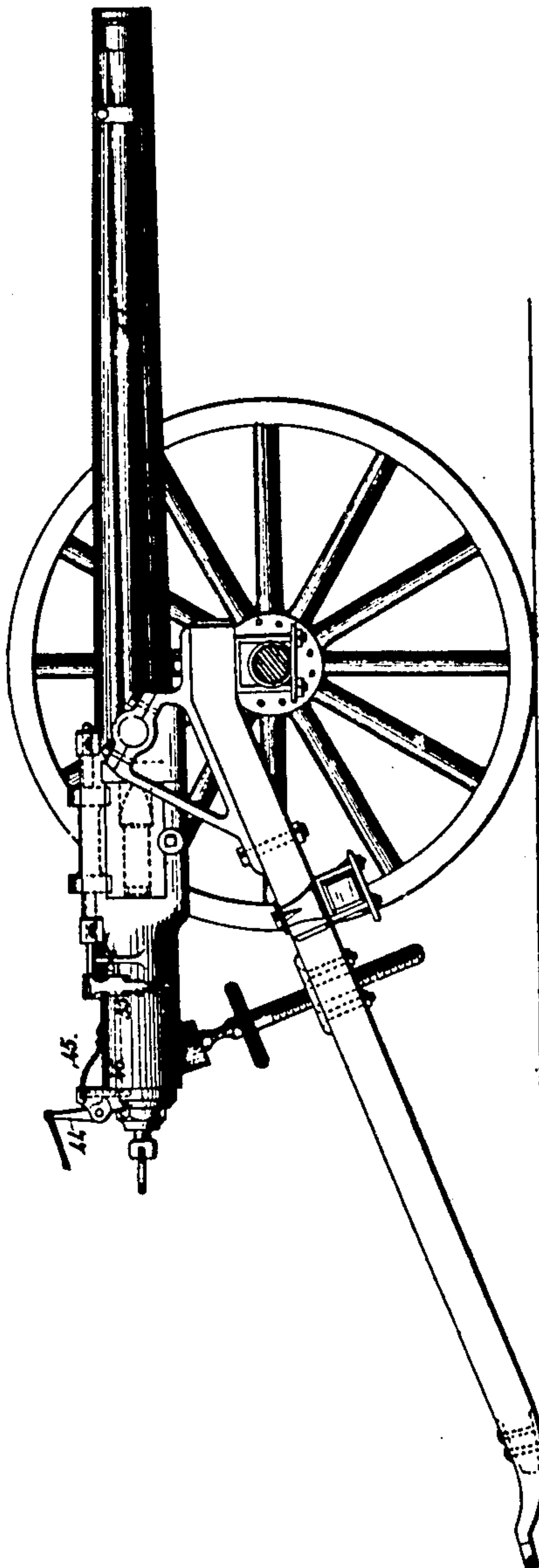


M. COLONEY.  
Magazine Gun.

No. 231,652.

Patented Aug. 31, 1880.

Fig. 1.



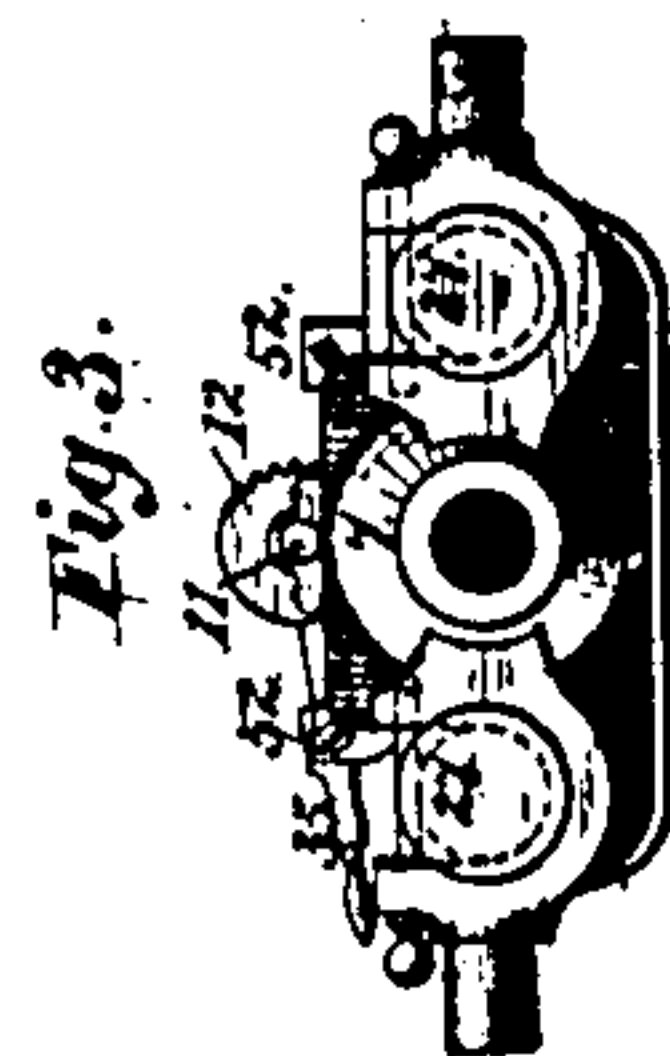
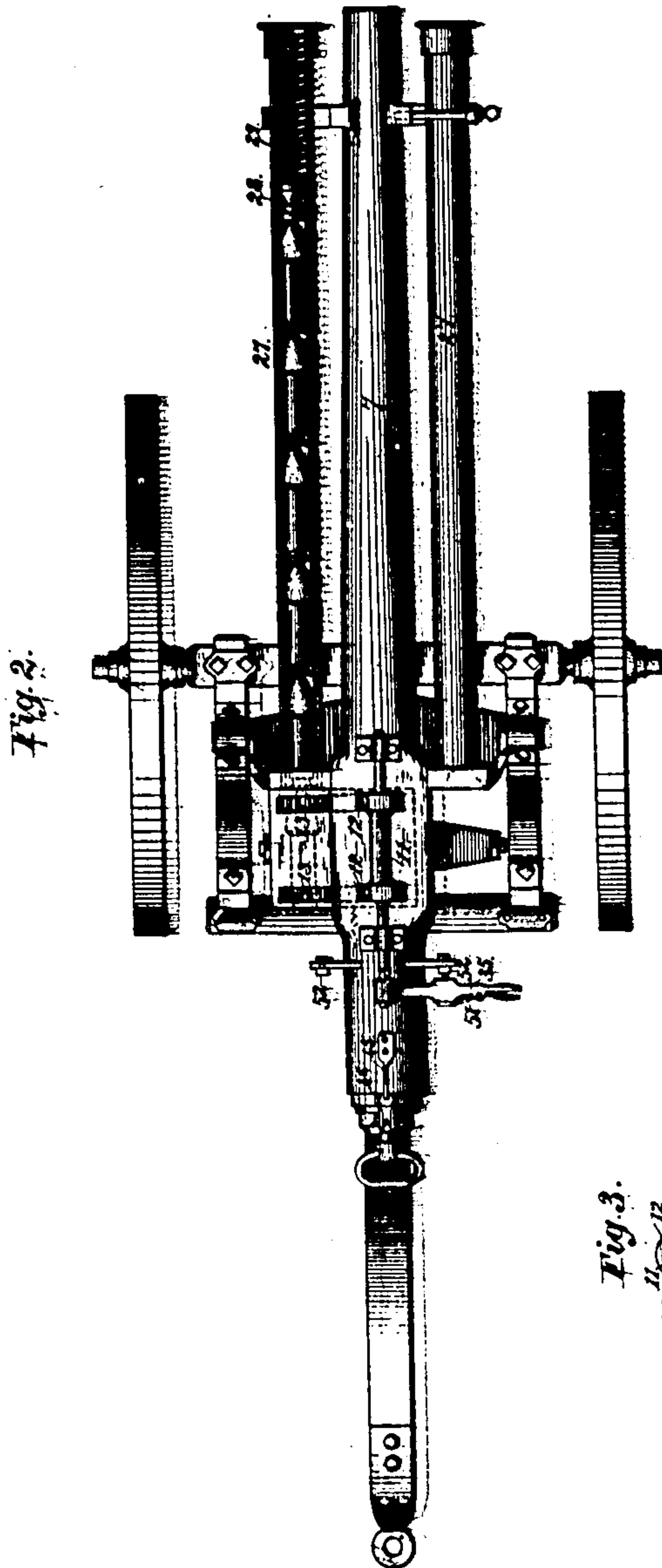
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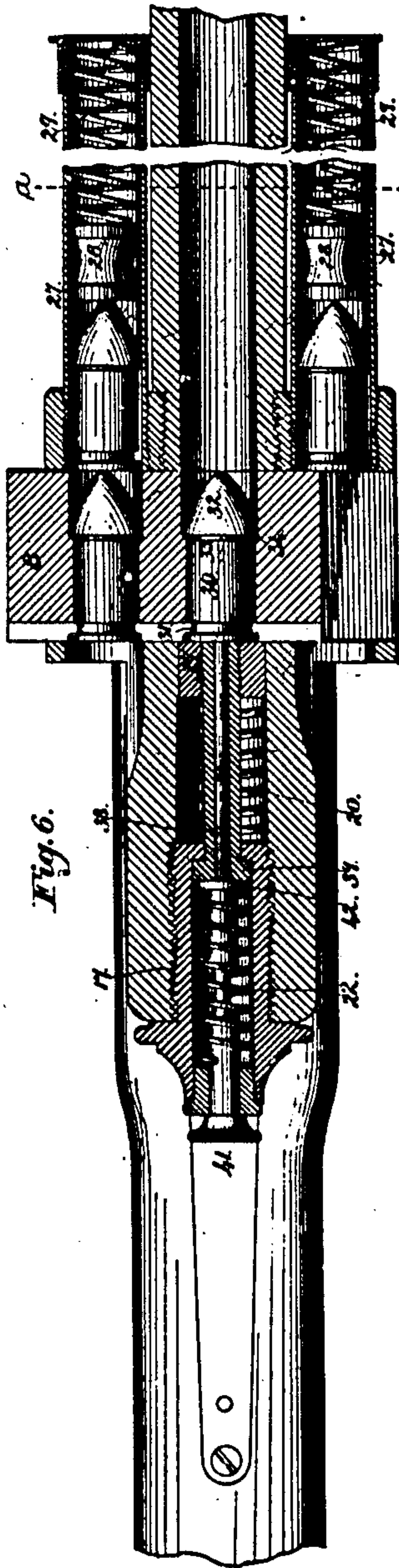


Fig. 6.

Fig. 4.

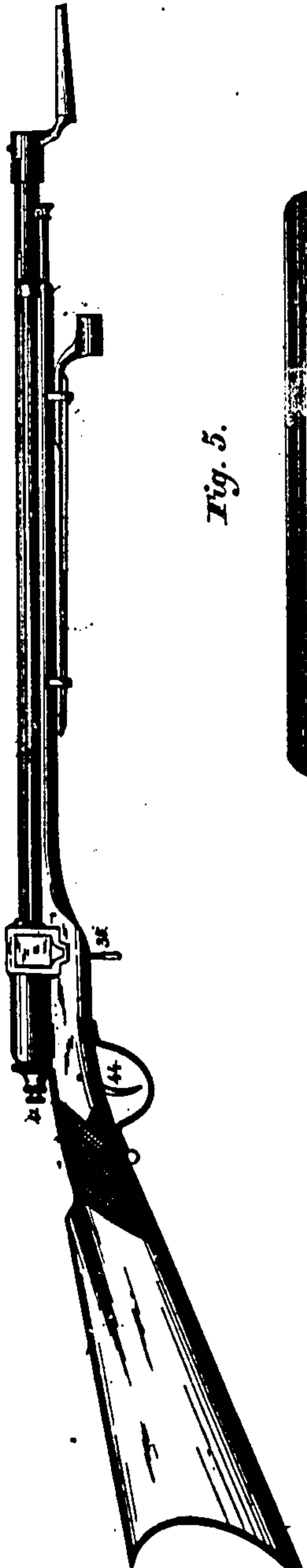
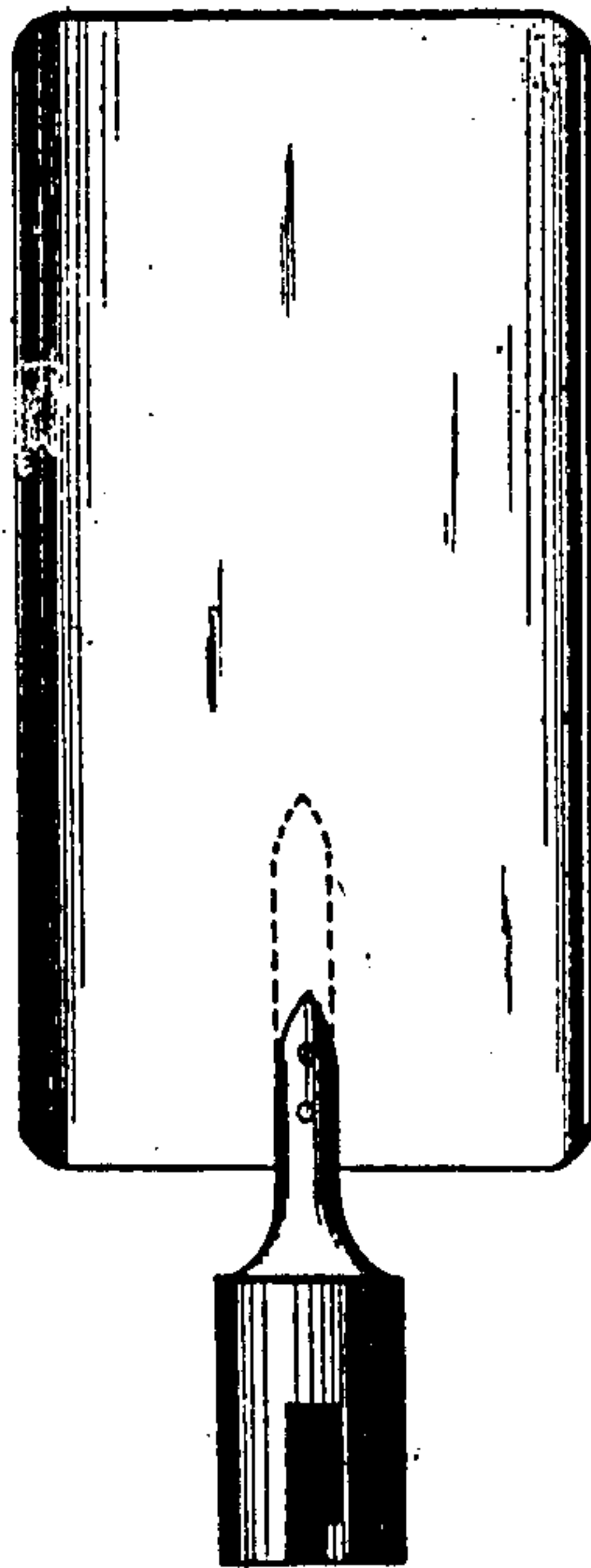


Fig. 5.



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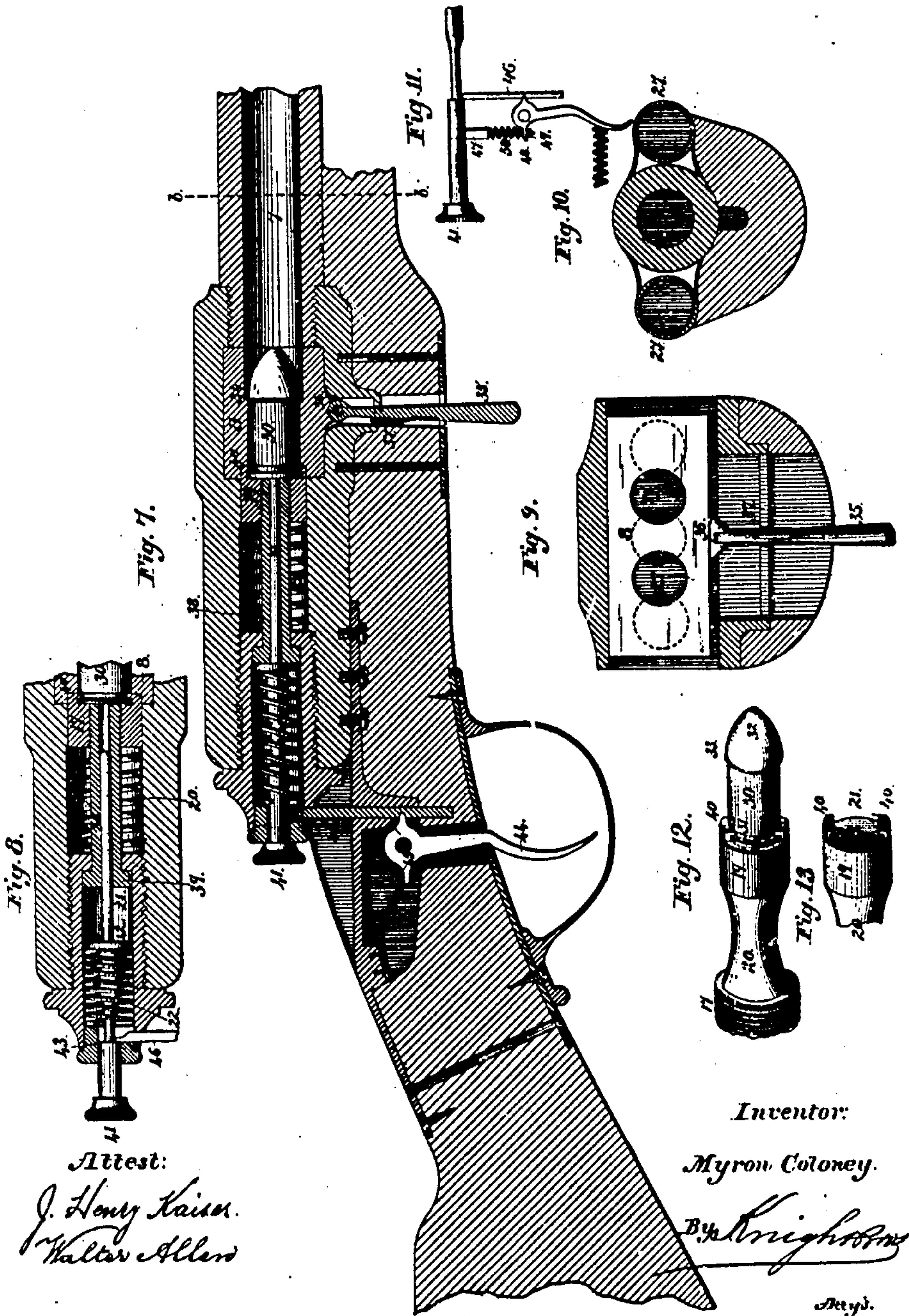
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# UNITED STATES PATENT OFFICE.

MYRON COLONEY, OF ST. LOUIS, MO., ASSIGNOR TO JAMES HENRY McLEAN,  
OF SAME PLACE.

## MAGAZINE-GUN.

SPECIFICATION forming part of Letters Patent No. 231,652, dated August 31, 1880.

Application filed November 23, 1878.

*To all whom it may concern:*

Be it known that I, MYRON COLONEY, of the city and county of St. Louis, and State of Missouri, have invented certain new and useful Improvements in Magazine Fire-Arms and Cartridges therefor, (Case D,) of which the following is a specification.

The first part of my invention is applicable to breech-loading as well as to magazine fire-arms; and it consists in providing such arms with a recoil-spring and follower, a firing-pin, and a trigger, so combined that the piece will be cocked automatically by the explosion of the charge.

The invention farther relates to a trigger of peculiar construction adapted to catch the pin automatically and instantaneously, whether released by the finger or not.

In order that my invention may be fully understood, I will proceed to describe it as embodied under various modifications, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of a magazine field-piece embodying the invention. Fig. 2 is a plan thereof. Fig. 3 is a front view of the same. Fig. 4 is a side elevation of a musket or shoulder-gun illustrating the invention. Fig. 5 is a plan view of a spade-bayonet on a larger scale. Fig. 6 is a horizontal section of the breech portion of the gun on a still larger scale. Fig. 7 is a vertical longitudinal section of the same. Fig. 8 is a vertical longitudinal section of the firing apparatus, showing it cocked or in firing position. Fig. 9 is a transverse section on the line *a-a*, Figs. 6 and 7, the breech-slide being shown in central position for clearness of representation. Fig. 10 is a transverse section on the line *b-b*, Figs. 6 and 7. Fig. 11 is a detached side view of the improved automatic trigger. Fig. 12 is a perspective view of the recoil follower and spring with cartridge attached. Fig. 13 is a perspective view of the front part of the follower with the cartridge omitted, so as to show the holding-jaws.

On each side of the barrel 7 is a magazine, 27, provided with the customary follower 28 and spring 29, and adapted to contain and feed the cartridges, which consist of a cylin-

dric sheet-metal case, 30, formed with a circumferential groove, 31, near the base, and receiving a ball, 32, which projects radially beyond the case, so as to form a shoulder, 33, which, as the chambers of the reciprocating slide 8 are alternately presented to the respective magazines, are seated on internal shoulders 34 within the slide-chambers. The said chambers extend completely through the slide from front to back, and the described mode of seating the cartridge by means of a shoulder formed on the ball admits of loading from the front and discharging the empty shell backward by the act of introducing a new cartridge.

The slide 8 is reciprocated by means of a lever, 35, on a shaft, 11, carrying pinions 12, which gear with racks 13 on the slide, the said lever being provided with a spring-latch, 51, engaging with catches 52 52 at the extremities of the stroke, or, in small-arms, the lever 35 may be attached directly to the slide 8 by a hinge, 36, as shown in Figs. 7 and 9, a spring, 37, being employed to throw the lever into a notch at each extremity of its stroke, and thus lock the slide in either firing position.

Directly in rear of the barrel 7, and in position to form the back of the firing-chamber as either chamber of the breech-slide is brought in front of it, is a follower, 19, pressed forward by a spring, 20, which bears against a hollow breech-block, 17, and serves to take up the recoil. The follower 19 is connected by a stem, 38, with a head, 39, within the hollow breech-block 17, which limits the forward movement of the follower 19. On the face of the follower or recoil-block 19 are jaws 40, adapted to engage in the circumferential groove 31 in the cartridge when in firing position and hold it securely against the stroke of the firing-pin.

The firing-pin 21 works within the stem 38, and is thrown forward by a spring, 22, bearing on a collar, 42, which also limits the forward motion of the pin. The firing-spring 22 coacts with the spring 20 in taking up the recoil. A head, 41, on the rear end of the firing-pin permits cocking it by hand when necessary. 43 is the shoulder on the pin, which is held by the trigger-pin in cocking. In Fig. 7 I have shown a trigger, 44, of simple form, actuated



by a spring, 45, and operating on a single trigger-pin, 46.

My improved double trigger for automatic cocking is shown in Fig. 11. In this I employ a supplemental trigger-pin, 47, permitted to slide downward in a short horizontal arm or lug, 48, on the trigger-head, but confined by a nut, 49, to adapt it to be drawn down by the return motion of the trigger. A spring, 50, tends to press the pin 47 upward when the trigger is drawn.

The operation of this device is as follows: Supposing the pin to be cocked, as shown in Fig. 11, the drawing of the trigger 44 releases the firing-pin 21, which is thrown forward in customary manner to effect the discharge. The explosion throws the firing-pin back into cocked position, as already explained, and if the trigger be not released, so as to allow the pin 46 to catch the shoulder 43 of the firing-pin, the supplemental pin 47 will be pressed upward, so as to engage the said shoulder, and on the trigger being released the supplemental pin 47 will be drawn down and the pin 46 allowed to rise, so as to catch the pin in readiness for firing when the trigger is again drawn.

The recoil-spring 20 is preferably made of rubber, of the hour-glass shape shown in Figs. 12 and 13, which adapt it to serve as a packing to exclude gas from the recoil-chamber.

My invention enables the soldier to carry his ammunition on his shoulder instead of by a belt around his waist.

By a simple appliance the magazines may be made to have a vertical movement or adjustment, so that when one is exhausted that below it may be raised into feeding position. By thus using two magazines on each side, the gun may contain sixty-four rounds, and the whole will not be more weighty than a long-range rifle, or than is necessary for steadiness of fire, because the barrel may be made quite

light by reason of the freedom from liability to bursting conferred by the recoil-spring and follower.

The elastic recoil and the three resisting-shells admit of the use of a much larger charge, thereby increasing the range.

By relieving the soldier of weight and incumbrance around his waist he is enabled to march with less fatigue, and is always ready to receive a charge.

The manipulation of the gun is exceedingly simple, and does not require, as some other magazine-guns do, more skill and intelligence than can be depended on in the common soldier.

The spade-bayonet shown in Fig. 5 is a good appliance for throwing up intrenchments or rifle-pits.

Fig. 4 shows the mode of carrying the spade-bayonet in sockets under the stock when not in use. An ordinary bayonet may then be fixed in position for action.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

1. The combination of the follower 19, the firing-pin 21, working within it, the springs 20, 22, and a suitable trigger, the whole operating substantially as herein set forth, to effect the cocking of said firing-pin by the force of the explosion.

2. The second holding-pin, 47, combined with the trigger, substantially as herein described, and having a movement independently of the trigger, to adapt it to catch the firing-pin when the trigger is in retracted position and release it when the trigger is released.

MYRON COLONEY.

Witnesses:

OCTAVIUS KNIGHT,  
WALTER ALLEN.