C. A. PATTISON.

MAGAZINE PISTOL.

APPLICATION FILED JULY 2, 1909.

947,718.

Patented Jan. 25, 1910.

3 SHEETS—SHEET 1.

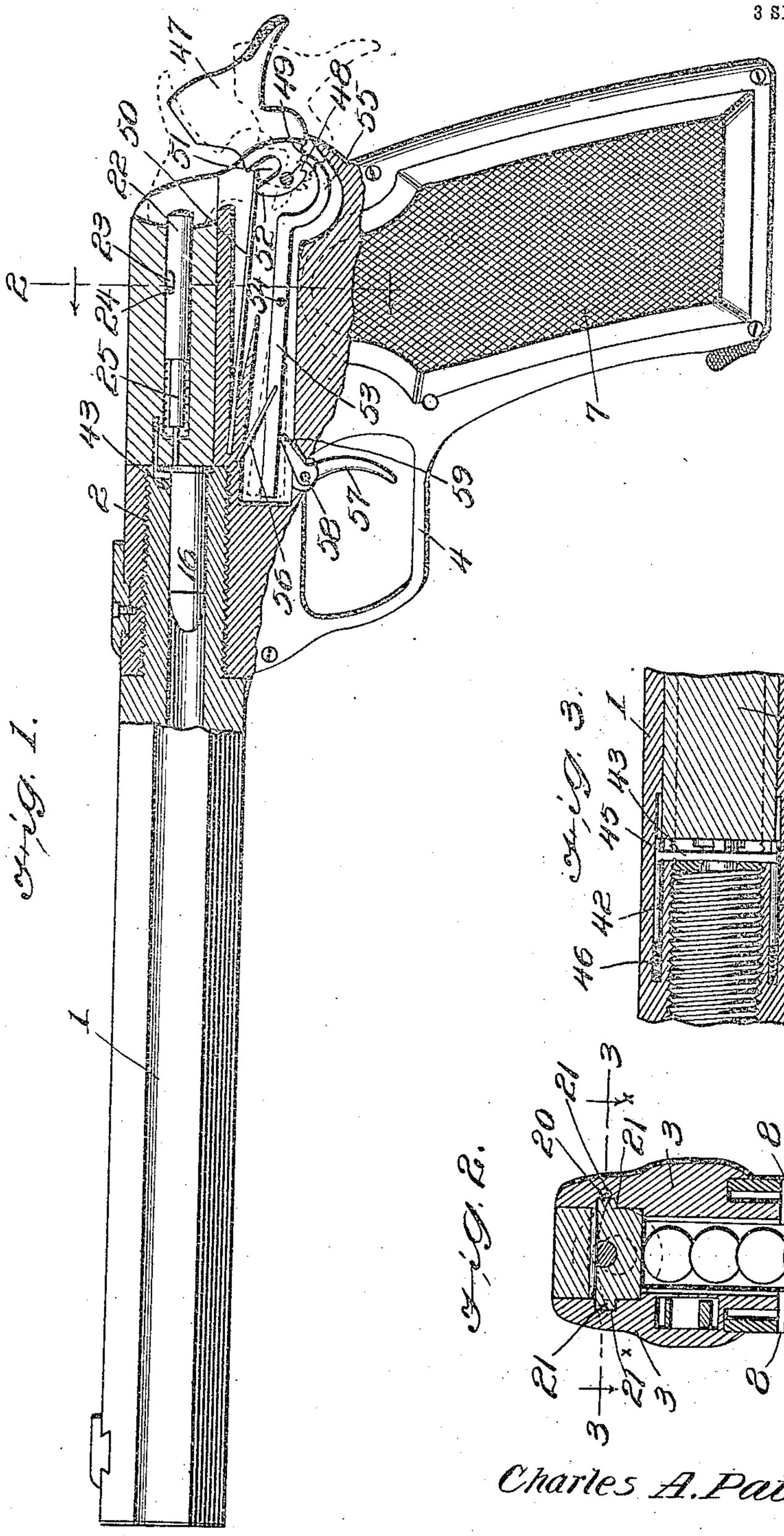

Fig. 1.

Fig. 3.

Fig. 2.

Witnesses

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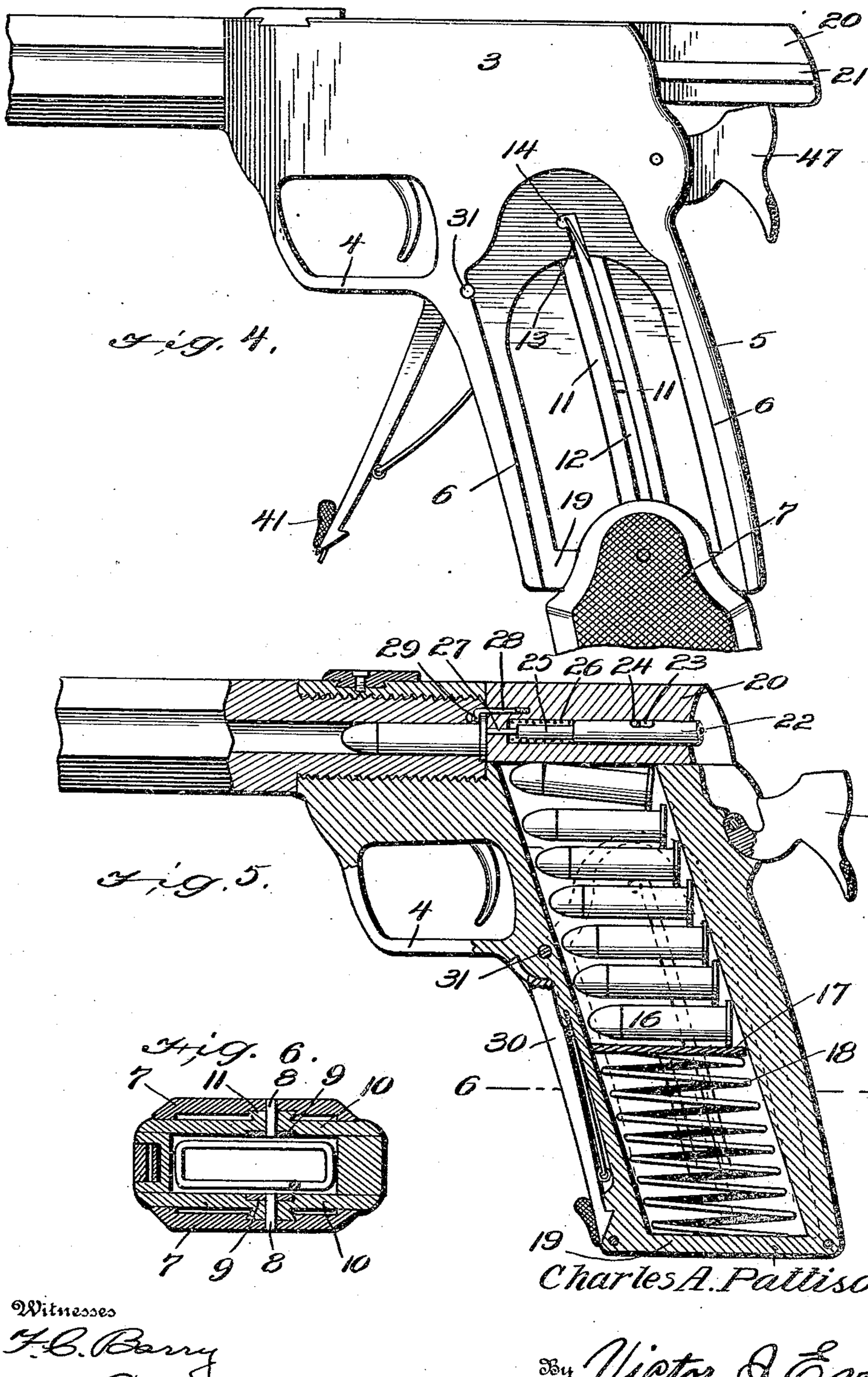

Fig. 4.

Fig. 5.

Fig. 6.

Witnesses

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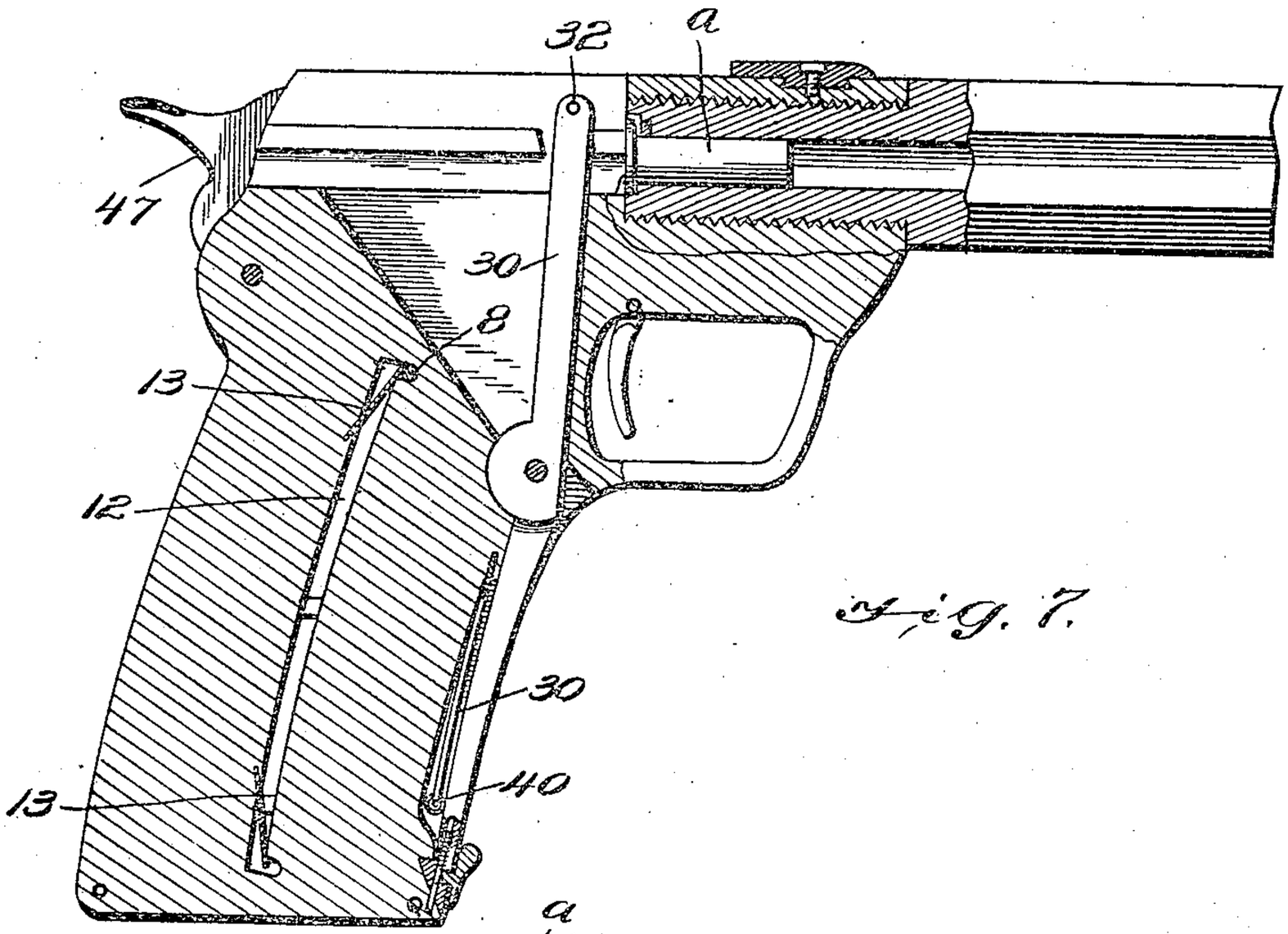

Fig. 7.

Fig. 8.

Witnesses

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UNITED STATES PATENT OFFICE.

CHARLES A. PATTISON, OF MISSOULA, MONTANA.

MAGAZINE-PISTOL.

947,718. Specification of Letters Patent. **Patented Jan. 25, 1910.**

Application filed July 2, 1909. Serial No. 505,624.

To all whom it may concern:

Be it known that I, CHARLES A. PATTISON, a citizen of the United States of America, residing at Missoula, in the county of Missoula and State of Montana, have invented new and useful Improvements in Magazine-Pistols, of which the following is a specification.

This invention relates to magazine pistols, and one of the principal objects of the same is to provide a pistol having a magazine in the grip or stock for containing the cartridges, means being provided for forcing the upper cartridge in place in the barrel at each operation of the breech block.

Another object of the invention is to provide a magazine in the handle of the pistol, said magazine being covered by the grips at the sides of the handle, said grips being mounted to slide out of the way for filling the magazine, and to be held in place by spring latches.

Another object of the invention is to provide simple and reliable means for ejecting the cartridge blank simultaneously with the operation of the breech block and to provide a spring actuated cut-off for preventing displacement of the parts during the loading operation.

These and other objects may be attained by means of the construction illustrated in the accompanying drawings, in which,—

Figure 1 is a side elevation and partial section of a pistol made in accordance with my invention, the hammer being shown in full lines in half cocked position and in dotted lines in full cocked and firing position. Fig. 2 is a detail sectional view on the line 2—2 of Fig. 1, looking in the direction indicated by the arrows. Fig. 3 is a detail sectional view on the line 3—3 of Fig. 2, looking in the direction indicated by the arrows. Fig. 4 is a side elevation, showing the position of the parts when ready for loading the magazine. Fig. 5 is a sectional view illustrating the piston cocked and ready for firing. Fig. 6 is a detail sectional view on the line 6—6 of Fig. 5. Fig. 7 is a sectional view showing the grip member removed from one side and the piston in fired position with the blank cartridge in place ready to be ejected. Fig. 8 is a similar view showing the breech block and ejector in position to receive a new cartridge, the previously fired cartridge blank being shown in position as it is thrown out or ejected.

Referring to the drawings, the numeral 1 designates the barrel which is secured to the stock by means of the threaded connection 2. The stock 3 consists of the oppositely disposed side portion having an integral trigger guard 4, and extended to form the handle portion 5, the latter being hollow and provided with suitable guides 6 for the sliding grip members 7. Connected to the upper ends of the grip members 7 are pins 8 which extend through spaced metal strips 9. The metal strips 9 are connected to the inner walls of the side members 10, and the latter are provided with oppositely projecting longitudinal dovetails 11 which fit in grooves in the inner walls of the grips 7. A slot 12 is formed in the dovetailed portion 11 for the pins 8. Springs 13 are secured at the opposite ends of the slot to hold the pins 8 in the rounded offset portions 14 of said slot. The members 10 are spaced apart sufficiently to form a hollow magazine for the cartridges 16, and said cartridges are supported upon a spring-actuated support 17, the spring 18 being disposed between the support and the lower end 19 of the handle. The breech block 20 is provided with guide ribs 21 at opposite sides thereof, said ribs being mounted to slide in guideways $21^{\times}$ in the stock 3. This breech block is provided with a longitudinal bore in which is mounted the firing pin 22, said firing pin having a slot or recess 23 on its upper side to accommodate a transverse pin 24 serving as a stop for the movement of the firing pin. Upon the inner end of the firing pin is a reduced portion 25, and a spiral spring 26 surrounds the reduced portion, said spring bearing at one end against the firing pin and the opposite end bearing against a shoulder in the bore of the breech block. The point or pin 27 extends through a small bore at the inner end of the breech block, as shown in Fig. 5. An ejector 28 is connected to the breech block and is provided with a finger 29 which engages the rim of the cartridge, when the breech block is in firing position.

For operating the breech block and ejector a lever 30 is provided, said lever being pivoted at 31 to the handle, and provided with a cross pin 32 adapted to work in a slot or recess 33 in the breech block. The lever 30 extends upon opposite sides of the pivotal

point 31, and at the lower end of said lever a spring 34 is adapted to engage a notch 35 in the front portion of the handle. The lever 30 is seated in a recess 36 in the handle and is provided with a projection 37 which engages a notch 38 at the bottom of the recess. Secured in said recess is a spring 39 having upon its outer end a roller 40, the normal tension of said spring 39 being exerted to throw the lever 30 outward when the spring 34 is released from the notch 35. The spring 34 is connected to a sliding finger piece 41 which is operated to withdraw the spring from the notch 35.

A spring actuated cut-off 42 comprising longitudinally extending members mounted in recesses at opposite sides of the barrel has a cross bar 43 extending across the top of the bore 44 of the barrel, as shown more particularly in Fig. 3. Studs 45 project outwardly from a cross bar 43, and springs 46 exert their tension to move the cut-off outwardly when the breech block 20 is moved backwardly in position to extract the cartridge blank. The cross bar 43 is engaged by the flange of the cartridge when the latter is pushed in place by the breech block against the tension of the springs 46.

The hammer 47 is pivoted at 48 and provided upon its lower side with notches 49. A spring 50 secured in the breech projects into a recess 51 in the hammer, said spring bearing upon a projection 52 and exerting its stress to throw the hammer against the firing pin 22. The sear 53 is pivoted at 54 and provided with a curved end 55, the terminal of which engages the notches 49 to hold the hammer in cocked or half cocked position. The sear spring 56 is secured to the breech and bears upon the upper surface of the sear at a point back of the trigger. The trigger 57 is pivoted at 58 and is provided with a projection 59 which bears underneath the outer end of the sear.

The operation of my invention may be briefly described as follows:—When it is desired to load the magazine the grips 7 are moved backwardly until the pins 8 are carried into the slots 12 against the tension of the springs 13. The grips then are moved downwardly to expose the magazine and to permit the same to be loaded with the cartridges 16, the spring 18 being contracted by the column of cartridges and exerting its stress to push said cartridges up against the breech block 20. After one of the cartridges has been fired the lever 30 is released by moving the finger piece 41 upward. When the spring 39 is extended as shown in Fig. 8 the breech block is carried backward, and the blank cartridge *a* is forced out of the opening *b* normally occupied by the breech block. The extractor draws the blank backward, and the cut-off is forced rearward by the springs 46, the cross bar 43 then holding the next cartridge in position in alinement with the bore 44. When the lever 30 is returned to its original position, the cartridge 16 is forced into the bore 44 of the barrel.

From the foregoing it will be obvious that a pistol made in accordance with my invention is comparatively simple in construction, provides means for carrying quite a number of cartridges in position for firing one after the other, while the means for placing the cartridges is simple and reliable and can be quickly operated.

I claim:—

1. In a magazine firearm, the combination of a magazine in the handle portion thereof, spring-actuated means for moving the cartridges into line with the barrel, a breech block, a firing pin, and a lever pivoted to the handle and connected to the breech block for moving the same backwardly and ejecting the cartridge blank, said lever having a catch at its lower end, and said lever being forced outwardly to open the breech by a spring.

2. In a magazine pistol, the combination of a sliding breech block, a lever connected to the breech block and pivotally mounted to the stock, said lever having a catch thereon for engaging the stock or handle, and a spring provided with a roller for throwing said lever outwardly and moving the breech block.

3. In a magazine pistol, the combination of a magazine, means for forcing cartridges in alinement with the barrel, a breech block, a lever for moving the breech block and for ejecting the cartridge blank, and a spring provided with a roller on its end for forcing the lever to move the breech block.

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

CHARLES A. PATTISON.

Witnesses:
E. A. WINSTANLEY,
NEIL CURRIE.