F. M. SHINN.

Magazine Fire-Arm.

No. 162,582. Patented April 27, 1875.

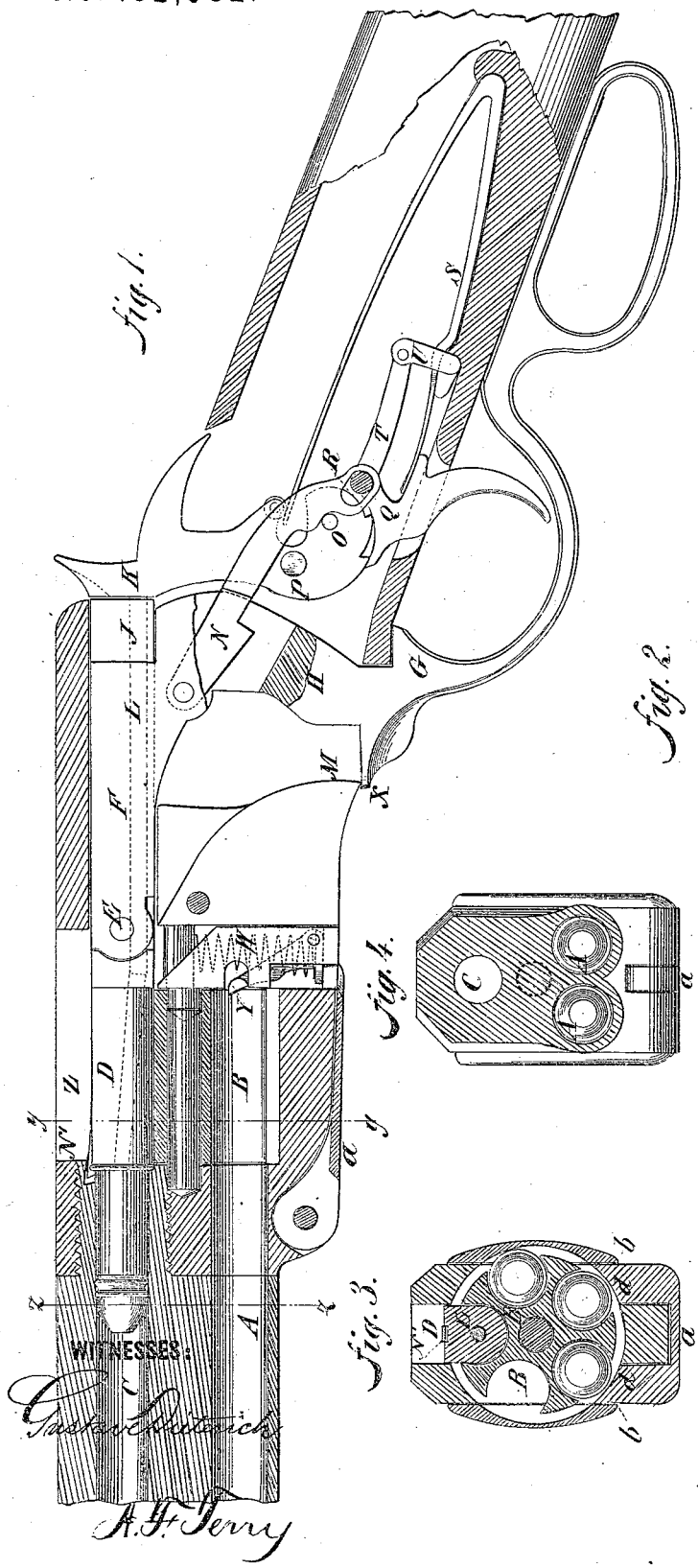

Fig. 1.

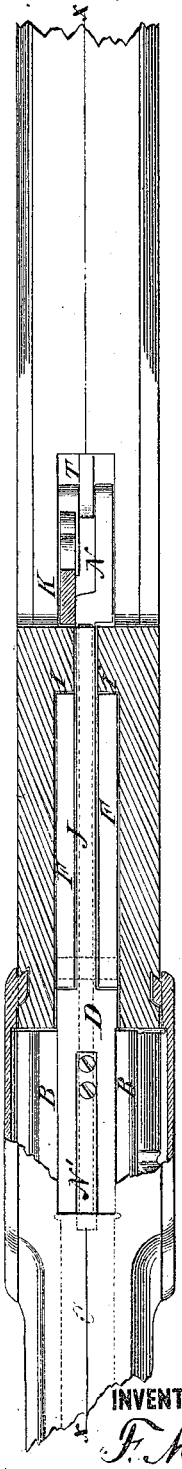

Fig. 2.

Fig. 4.

Fig. 3.

WITNESSES:

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FREDRICK M. SHINN, OF LEROY, KANSAS.

IMPROVEMENT IN MAGAZINE FIRE-ARMS.

Specification forming part of Letters Patent No. **162,582**, dated April 27, 1875; application filed August 10, 1874.

To all whom it may concern:

Be it known that I, FREDRICK M. SHINN, of Leroy, in the county of Coffee and State of Kansas, have invented a new and Improved Breech-Loading Fire-Arm, of which the following is a specification:

My invention is an improvement in the class of breech-loading magazine fire-arms. The features of novelty are the construction and combination of parts specifically indicated in the claims.

Figure 1 is a longitudinal sectional elevation of my improved gun, taken on line *x x* of Fig. 2. Fig. 2 is a horizontal section. Fig. 3 is a transverse section taken on the line *y y* of Fig. 1, and Fig. 4 is a transverse section taken on the line *z z*.

Similar letters of reference indicate corresponding parts.

The gun is designed to have two magazines, A, under the barrel, discharging into the revolving chambered cylinder B, by which the cartridges are to be presented behind the barrel to be shoved out of the chambers of the cylinder into the barrel by the breech-rod D. The breech-rod is jointed at E to the front end of the horizontal slotted bars F, forming part of the breech-rod, and being a portion of the guard G, which has a curved upright portion, H, extending up from the under side of the stock, in a recess, to and uniting with the under side and rear part of the bar. This bar rests at the rear end against the shoulders I of the breech, to deliver the shocks upon them, and the rod D has a shank, J, extending along a slot in the bar F to the hammer K, in which the firing-pin L (shown dotted) is arranged.

The bar G and the part H of the guard drop down in the recess in the stock when the guard is thrown forward, to cock the gun and withdraw the discharged shell, eject it from the chamber of the cylinder, and turn the cylinder forward to present a cartridge. After dropping down sufficiently to withdraw the end of bar F from the shoulders I the front part of upright H strikes on the point M of the stock to swing the bar F back and withdraw the rod D from the cylinder, so that the latter can be revolved. At the same time that the bar F thus drops down it cocks the hammer by pressing the lever N across the stud-pin O of the hammer, below the pivot P of the latter, said lever being pivoted to the upper end of part H of the guard, and at the other end connected to the trigger-pivot Q by a slotted hole, R, the pivot being the fulcrum of the lever, and the slot being to allow the lever to be shoved back a little to pull the breech-rod back. This lever is pressed forward by the mainspring S to keep bar F up in its place in front of the shoulders J; also to keep the guard in place by a push-bar, T, bearing against the end, and a kind of elbow-shaped rock-lever, U, fitted under the spring, so as to be pressed forward by it and jointed to the push-bar.

When the breech-rod is drawn back it pulls the shell back into the cylinder by its spring-catch V, and as soon as that takes place the ejector W is forced up by the projection X of the guard, which presses it up at the bottom. The ejector engages the shell under the rim of the base and lifts it out of the chamber of the cylinder. As soon as the shell has been lifted out the pawl Y on the ejector engages the cylinder by a notch in the rear end and turns it sufficiently to bring a cartridge into range with the barrel. Then the guard is pulled back and the breech-rod thereby pushed forward to push the cartridge into the barrel. The ejector is at the same time pulled back by its spring, and the gun is then ready for firing again.

When the shell is thrown up by the ejector the front end swings upward until the flange at the rear escapes from the spring when the shell is thrown out.

Should the ejector be raised so gently as not to throw off the shell, but allow it to fall back and rest on the cylinder, it will be gradually raised above the breech-rod by inclines to be formed on the front portion of the walls of the slot Z, so that the breech-rod will pass under it in pushing the next cartridge into the barrel.

To prevent the cartridge from falling out, in case the arm should be turned upside down while the cartridge is in the upper chamber preparatory to being pushed into the barrel, the front wall of the slot Z is extended a little farther back than the front end of the cylinder, so that the point of the bullet will be prevented from escaping by it, and the rear end is prevented by its flange, which is wider than the

opening in the side of the chamber, the said opening being only as large as the body of the cartridge. The shell is drawn back till the flange escapes from the chamber, when it is to be discharged.

The cylinder will, in practice, be stopped at the right point, when it is revolved, by a stop on the ejector, against which the lower notch in the cylinder will be caught. This stop will be drawn down out of the way of the cylinder when the ejector goes down.

A door, *a*, opens to the magazine through the cylinder by means of slots *b* in the under side of the stock, said door having thick flanges *d* to fill said slots, and said flanges being curved on the edge to conform to the circular form of the chamber in which the cylinder works.

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

1. The combination of the ejector with the revolving chambered cylinder, having openings in the sides to the chambers.

2. The combination of the guard and its projection X with the ejector, in the manner described.

3. The combination of the mainspring, the lever N, the presser T, and rock-lever U, to hold the guard in position, as specified.

4. The pawl Y for turning the cylinder, connected to the ejector to be operated by the action of the projection X of the guard, substantially as specified.

5. The magazine-openings *b* in the breech, and the door *a d* for closing them, arranged and combined substantially as specified.

FREDRICK M. SHINN.

Witnesses:

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