

Gilbert H. Harrington.

111534

Cartridge Shell Ejector.

PATENTED FEB 7 1871

Fig.1

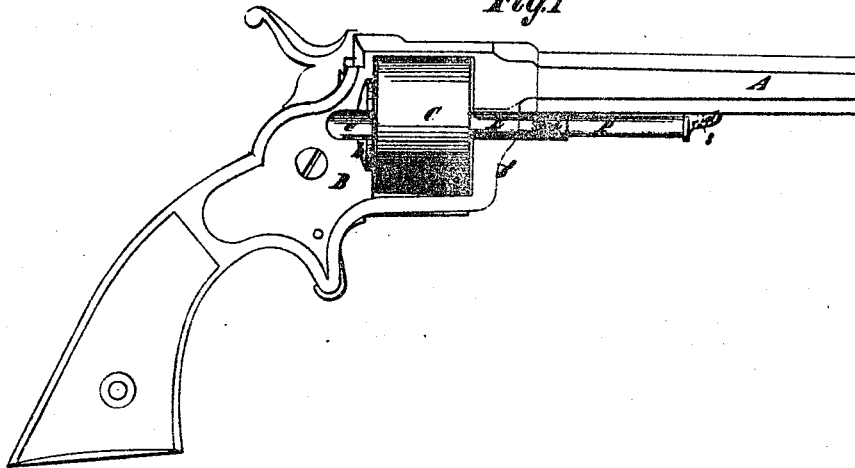


Fig.2

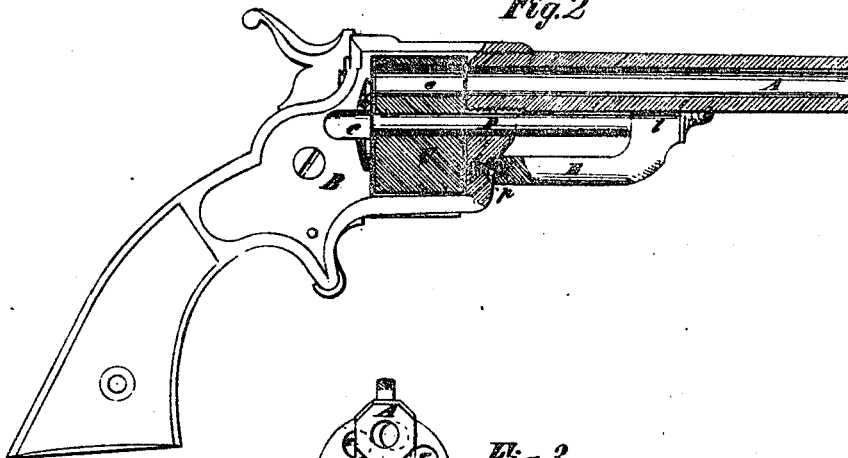


Fig.3



Witnesses.
Fred. Haynes
Edw. Beech

G. H. Harrington
per *Wm. Seibert & Co*
Attorneys

UNITED STATES PATENT OFFICE.

GILBERT H. HARRINGTON, OF WORCESTER, MASSACHUSETTS.

IMPROVEMENT IN CARTRIDGE-SHELL EJECTORS FOR REVOLVING FIRE-ARMS.

Specification forming part of Letters Patent No. 111,534, dated February 7, 1871.

To all whom it may concern:

Be it known that I, GILBERT H. HARRINGTON, of the city and county of Worcester, in the State of Massachusetts, have invented a new and Improved Cartridge-Shell Ejector for Revolving Fire-Arms; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, forming a part of this specification.

This invention relates to revolvers which are loaded from the rear of the cylinder and from the chambers of which the discharged cartridge-shells are ejected in a rearward direction.

It consists in a pin so pivoted to a forward extension of the center-pin or otherwise pivoted in an equivalent manner in front of the cylinder as to be capable of a swinging and sliding movement, that it may be brought to one side of the frame, and there so manipulated as to expel the shells, and when not in use may be brought to a position under the barrel, and there secured and held by a spring-catch provided therefor on the front of the frame.

In the accompanying drawings, Figure 1 is a side view of a pistol having my ejector applied, showing the latter as operated to eject a shell. Fig. 2 is a similar view, partially in section, showing the ejector locked under the barrel; and Fig. 3 is an end view of the same, showing the ejector in the same position as it is in Fig. 1.

Similar letters of reference indicate corresponding parts in all the figures.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation with reference to the drawings.

The barrel A, frame B, cylinder C, and the lock of the pistol are of ordinary construction. Formed longitudinally in the right side of the frame B and the recoil-shield b, immediately behind the cylinder, is a recess, c, through which the cartridges are introduced to the chambers e e of the cylinder, and their shells ejected after their charges have been exploded.

P is the center-pin, the front portion of which extends forward beyond the frame along the under side of the barrel, and has formed on its outer end a lug-like projection,

d, which is secured to the barrel by a screw, S, that serves to hold the pin in its place in the cylinder and frame, and also to keep the extended front portion of the pin rigid.

E is the ejector, consisting of a pin having at its front end a socket, l, which is fitted to slide easily upon the portion of the center-pin P in front of the cylinder. The main portion of this pin E is straight and parallel with the bore of the socket l, and is of a length sufficient to enable it to pass the front portion of the frame and extend nearly through the chambers e e of the cylinder. It is of a size to pass easily into the said chambers, and the distance between its center and the center of socket l is equal to the distance of the center of the chambers from the center of the cylinder. The ejector thus constructed and applied to the center-pin is free to swing and slide thereon. In the point or rear extremity of the ejector is a slight recess, j, for the reception of the rounded end of a spring-catch, f, which is provided in the front portion of the frame B under the center-pin. This catch f consists of a short pin, which is pressed forward by a spring, i, inserted behind it into a hole, g, drilled in the frame for its reception. The catch f is kept in position by a pin, p, which is inserted transversely through the frame and through a notch in the said catch.

When the ejector is not in use it is slid forward on the center-pin and turned down to bring it opposite the catch f, which enters the recess in its point and locks it.

To eject the cartridge-shells the hammer is drawn to half-cock in order to release the cylinder and permit it to be turned by hand, and the ejector is swung aside and pushed back into the several chambers, one after the other, as they are successively brought opposite the recess c in the frame, and the empty shells are thereby ejected.

What I claim as my invention, and desire to secure by Letters Patent, is—

The ejector E, having a swinging and sliding movement around a forward extension of the center-pin P, substantially as and for the purpose herein described.

GILBERT H. HARRINGTON.

Witnesses:

E. R. STODDARD,
E. L. FREEMAN.