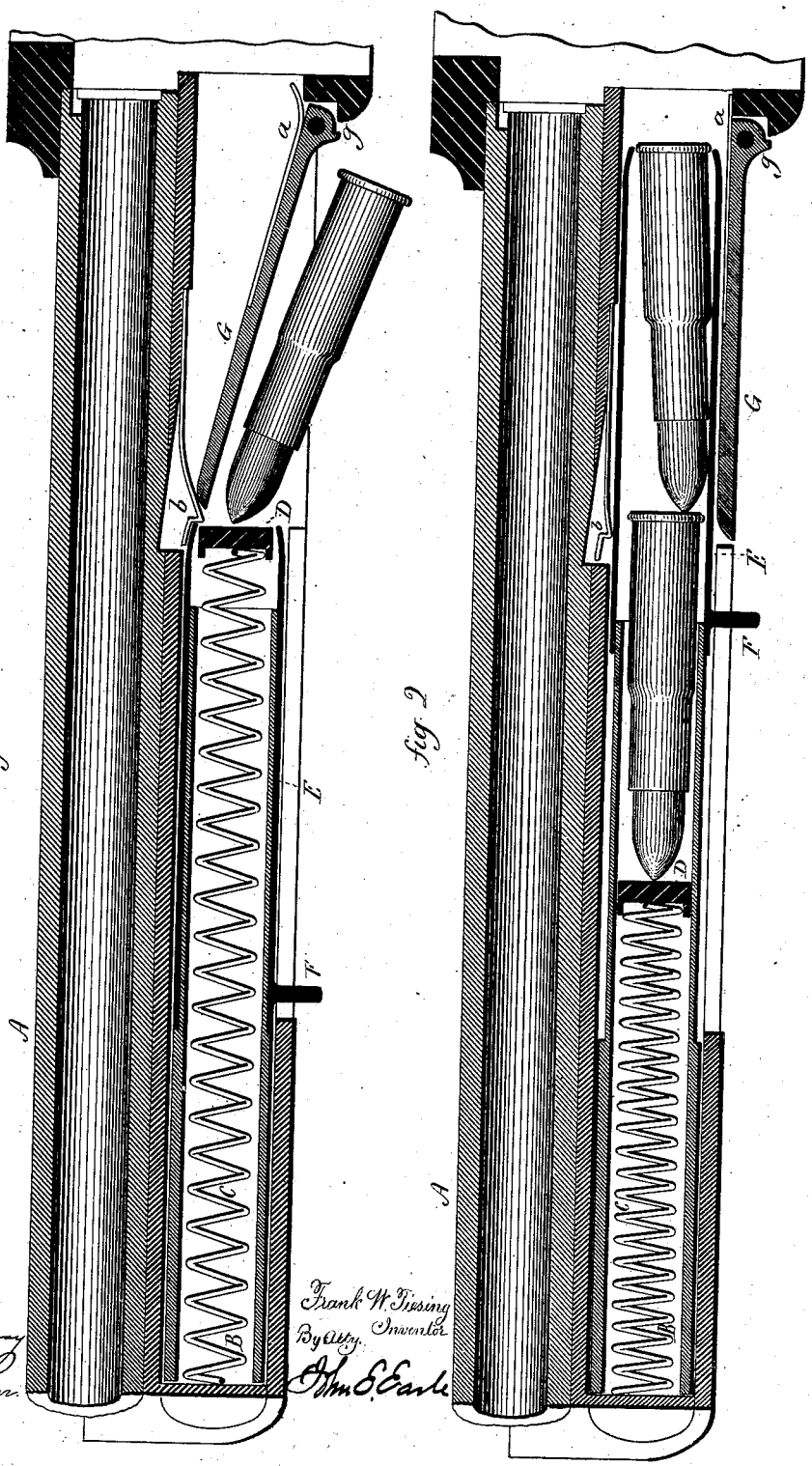
F. W. TIESING.

MAGAZINE FIRE-ARM.

No. 193,574. Patented July 24, 1877.



Witnesses.

J. H. Chumney

Clara Broughton

Frank W. Tiesing
Inventor
By Atty.
Wm. C. Earle

UNITED STATES PATENT OFFICE.

FRANK W. TIESING, OF NEW HAVEN, CONNECTICUT.

IMPROVEMENT IN MAGAZINE FIRE-ARMS.

Specification forming part of Letters Patent No. **193,574**, dated July 24, 1877; application filed February 28, 1877.

To all whom it may concern:

Be it known that I, FRANK W. TIESING, of New Haven, in the county of New Haven and State of Connecticut, have invented a new Improvement in Magazine Fire-Arms; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a sectional side view, illustrating the method of introducing the cartridges to the open magazine; and in Fig. 2, same view with the magazine closed.

This invention relates to an improvement in that class of repeating-arms known as "magazine-arms," and specially to those in which the magazine is arranged longitudinally beneath the barrel, the object of the invention being to facilitate the introduction of loaded cartridges into the magazine.

The invention consists in the combination of the magazine-tube with an opening forward of the breech mechanism, and combined with means for moving the follower forward, so as to charge the way through the said opening, as more fully hereinafter described.

A is the barrel; B, the magazine, arranged in the usual relative position. Within the magazine is the usual spring C and follower D, the spring forcing the follower toward the mechanism in the frame of the arm, to force the cartridges into the carrier for transfer to the barrel, operating to do this in substantially the usual manner.

The magazine is divided near its rear end, and a second section, E, introduced, which slides upon the first in telescopic form, moved by means of a knob, F, or other convenient device, as from the position in Fig. 2 to that in Fig. 1. The rear end of this second section E has flange-like projections to engage the follower D, so that, there being no cartridges in the magazine, such sliding movement of the section E will carry the follower forward to the position in Fig. 1. The distance of this movement is a little more than the length of the cartridges to be introduced, and at the rear end of the magazine a plate, G, is arranged, hinged at the rear end, as at *g*, and provided with a spring, *a*, the tendency of which is to force the plate G outward to its normal position, as seen in Fig. 2. In this condition the slide E may be moved to the rear to complete the magazine; but when the follower is carried forward, as in Fig. 1, then the forward end of the plate G may be turned inward, as shown in that figure, exposing the follower, so that the cartridges may be successively inserted, the first, as in Fig. 1, striking the follower and pressed inward, the plate G serving as a guide, and other cartridges successively following.

In order to retain each successive cartridge thus inserted, a spring-latch, *b*, is arranged to yield as the flange of the cartridge passes into the magazine, and then spring outward in rear of the head, as seen in Fig. 1; but in closing the magazine the spring-latch *b* is pressed upward out of the way, and the magazine being closed, as in Fig. 2, the catridges are free to pass to the mechanism of the arm for transfer.

While it is preferred to make the rear end of the magazine of telescopic form, as above described, any connection or arrangement which will draw the follower forward and allow the plate G to be turned inward will accomplish the same object, and by equivalent means.

I claim—

1. In a magazine fire-arm, the hinged plate, arranged forward of the cartridge-carrier and opening into the magazine, in combination with the spring-follower in the magazine and mechanism, substantially as described, for moving the follower forward, substantially as and for the purpose specified.

2. In a magazine fire-arm, the hinged plate, arranged forward of the cartridge-carrier and opening into the magazine, in combination with the spring-follower in the magazine, mechanism, substantially as described, for moving the follower forward, and the spring-latch *b*, substantially as and for the purpose specified.

FRANK W. TIESING.

Witnesses:
JOHN E. EARLE,
CLARA BROUGHTON.