GEORGE B. WARREN.

Improvement in Gun-Locks.

No. 115,996. Patented June 13, 1871.

fig: 1

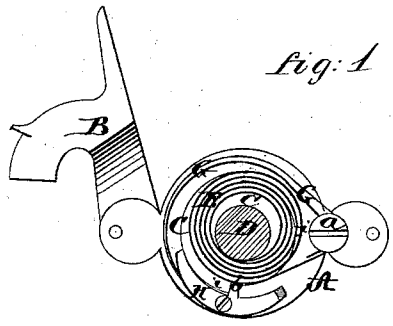


fig: 2

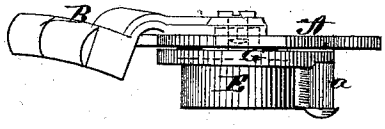


fig: 3

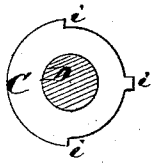
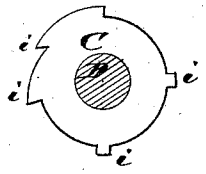


fig: 4.



Witnesses.

C. L. Evert.

D. D. Yeatman

Inventor.

Geo. B. Warren.

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AM. PHOTO-LITHOGRAPHIC CO. N.Y. (OSBORNE'S PROCESS.)

UNITED STATES PATENT OFFICE.

GEORGE B. WARREN, OF PROSPECT, PENNSYLVANIA.

IMPROVEMENT IN GUN-LOCKS.

Specification forming part of Letters Patent No. 115,996, dated June 13, 1871.

To all whom it may concern:

Be it known that I, GEORGE B. WARREN, of Prospect, in the county of Butler and in the State of Pennsylvania, have invented certain new and useful Improvements in Gun-Locks; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of a gun-lock, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is an inside view of the lock, and Fig. 2 is a plan view of the same. Figs. 3 and 4 are views of tumblers that may be used in the lock.

A represents the lock-plate, on the inner side of which the entire mechanism of the lock is attached. B is the hammer. C the tumbler, and D the center projection of the tumbler around which the mainspring E is wound. G is the dog-spring, which is prolonged until it meets and is connected with the screw *a*, which screw at the same time fastens the dog-spring and the mainspring. The tumbler C is provided with projections *i i*, which may be either square or in the shape of a tooth, as shown in the drawing.

As a general thing I prefer to make the tumbler as shown in Fig. 4, but it may be made as shown in Fig. 3, or it may have four square projections equal distances apart. Only one of them, however, is in use when the lock is on the gun.

The object of these projections is that thereby the tension of the spring can either be strengthened or weakened by making a quarter, half, or an entire revolution of the tumbler.

On the dog H is a projection, *b*, which serves as a check to the hammer when drawn back, and is also a check to the uncoiling of the mainspring when the lock is not attached to a gun.

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

1. The tumbler of a gun-lock, when provided with projections on its circumference, so that the tension of the mainspring may be regulated, substantially as herein set forth.

2. The dog H, provided with the projection *b*, substantially as and for the purposes herein set forth.

3. The combination, herein shown and described, of the mainspring E, dog-spring G, dog H, and tumbler C, when they are attached to and arranged within the circumference of the lock-plate, substantially as herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 5th day of April, 1871.

G. B. WARREN.

Witnesses:
C. C. SULLIVAN,
GEO. W. FISHER.