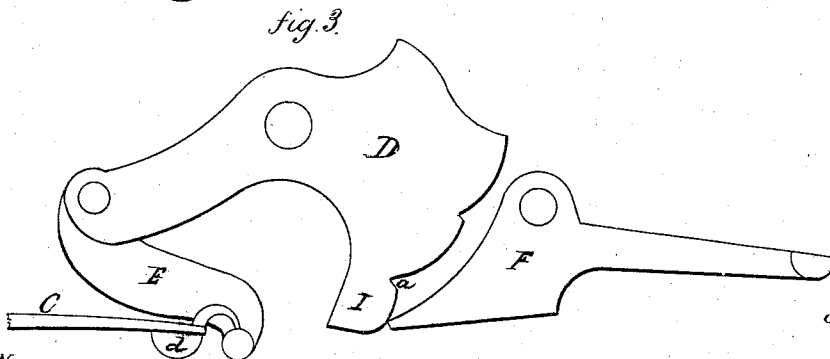
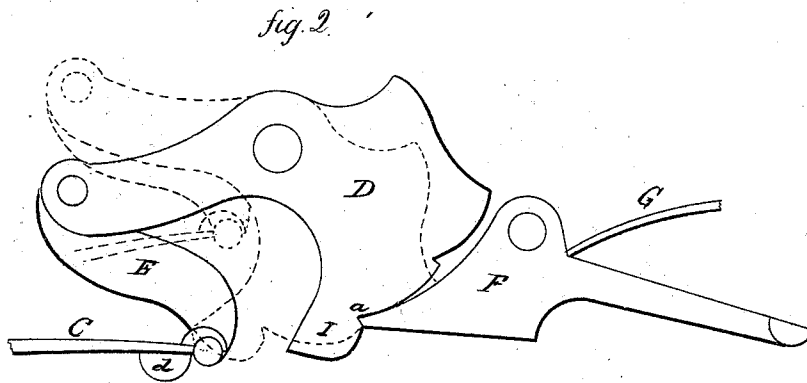
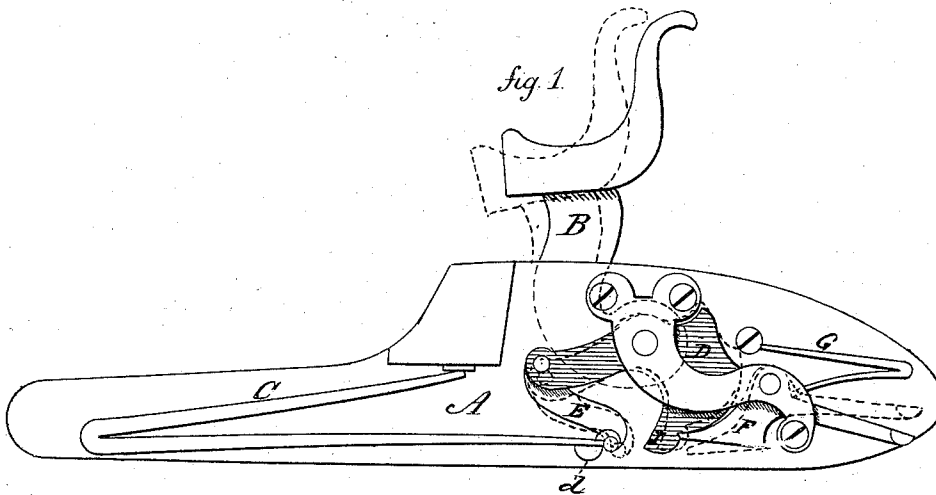


J. C. DANE.

Improvement in Gun Locks.

No. 124,939.

Patented March 26, 1872.



Joseph C. Dane
Inventor

By his Atty.

Wm. E. Earle

Witnesses
A. J. Tibbitts
J. H. Shumway

UNITED STATES PATENT OFFICE.

JOSEPH C. DANE, OF LA CROSSE, WISCONSIN, ASSIGNOR TO CHARLES PARKER, OF MERIDEN, CONNECTICUT.

IMPROVEMENT IN GUN-LOCKS.

Specification forming part of Letters Patent No. 124,939, dated March 26, 1872.

To all whom it may concern:

Be it known that I, JOSEPH C. DANE, of La Crosse, in the county of La Crosse and State of Wisconsin, have invented a new Improvement in Lock for Fire-Arms; and I do hereby declare the following, when taken in connection with the accompanying drawing and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawing constitutes part of this specification, and represents, in—

Figure 1, an inside view of the lock; and in Figs. 2 and 3, detached views of the tumbler and sear-plate, to illustrate the operation of the invention.

This invention relates to an improvement in locks for fire-arms, especially for breech-loading or revolving arms, the object being to cause the hammer to rebound after it has caused explosion; and the invention consists in the construction of the tumbler combined with the sear, so that, after the hammer has been thrown down, an over-motion being given to the spring, the sear will throw the tumbler and the hammer attached thereto back to half-cock.

A is the lock-plate; B, the hammer; C, the mainspring; D, the tumbler; E, the connection between the tumbler and mainspring; F, the sear; G, the sear-spring; all constructed and arranged to operate in substantially the usual manner, with this difference, that upon the lower end of the tumbler D a cam-shaped extension, I, is formed from the half-cock notch *a* downward; and that a stop, *d*, is made to arrest the action of the mainspring at about half-cock.

As represented in broken lines, Fig. 2, the tumbler and mainspring are, in position of full-cock, released from this in the usual manner, the hammer is thrown down to cause explosion; but, before the hammer strikes, the main-

spring C rests upon the stop *d*, having already imparted to the hammer a sufficient momentum to cause the explosion, carrying the tumbler to the position denoted in broken lines, Fig. 1, and also in Fig. 3. The nose of the sear bearing against the projection or cam I, and the hammer free from the mainspring, the power of the sear-spring on the sear, thus bearing against the projection I, forces the lower end of the tumbler forward until it reaches the half-cock notch *a*, or sufficiently far to remove the hammer the desired distance.

While I believe the operation of the sear upon the cam of the tumbler, as described, to be the best practical arrangement, it will be evident that other devices may be employed to throw back the hammer, it being only essential that the action of the mainspring be arrested before the throw of the hammer is completed.

I do not wish to be understood as broadly claiming a rebounding hammer, as such I am aware is not new; but

I claim—

1. In combination with the hammer and mainspring of a gun-lock, I claim a stop, arranged and operating substantially as described, to arrest the action of said mainspring before the full throw of the hammer is completed, in order to prevent the hammer resting with force upon the point struck to produce discharge.

2. In combination with the subject-matter of first clause of claim, I claim the tumbler D, provided with the cam-shaped end I and the sear F, so that the said sear will force the tumbler to return, substantially as described.

JOSEPH C. DANE.

Witnesses:

J. A. KELLOGG,
H. M. SAFFORD.