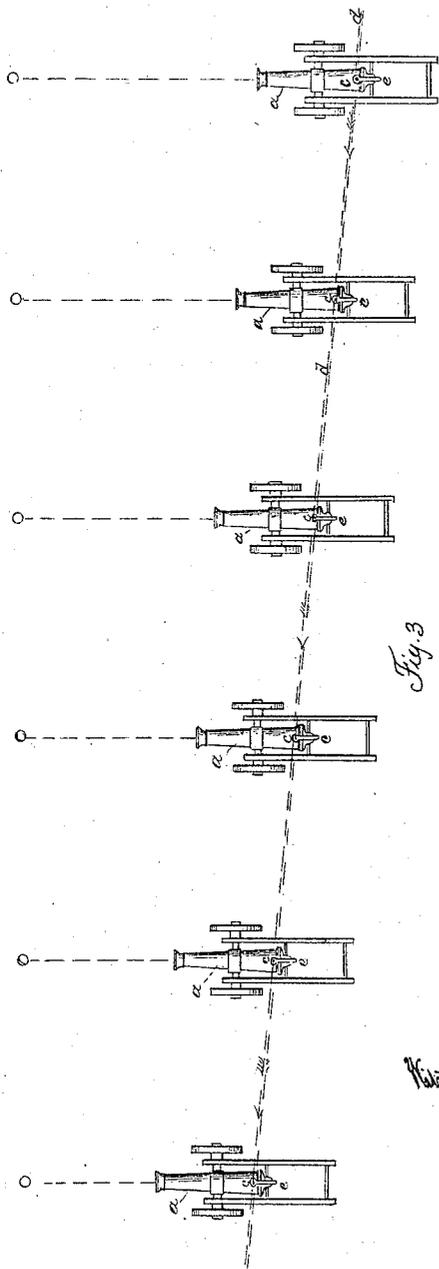


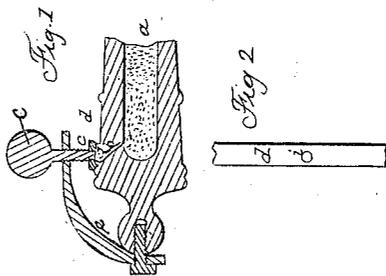
E. GOMEZ.  
Gun-Lock.

No. 34,056.

Patented Jan. 7, 1862.



*Fig. 3*



*Fig. 1*

*Fig. 2*

*Edwin Gomez*

*Witness*

*Lemuel W. Correll*

*Thos Geo Harolds*

# UNITED STATES PATENT OFFICE.

EDWIN GOMEZ, OF NEW YORK, N. Y.

## IMPROVEMENT IN FIRING CANNON BY ATTACHED FUSES.

Specification forming part of Letters Patent No. 34,056, dated January 7, 1862.

To all whom it may concern:

Be it known that I, EDWIN GOMEZ, of the city and State of New York, have invented, made, and applied to use a certain new and Improved Means for Firing Cannon, Mortars, &c.; and I do hereby declare that the following is a full, clear, and exact description of my said invention, reference being had to the annexed drawings, making part of this specification, wherein—

Figure 1 is a section of the cannon or other piece of ordnance at the touch-hole, showing my improvement. Fig. 2 is a plan of my tape-fuse at the touch-hole; and Fig. 3 shows the mode in which several cannon are to be fired simultaneously.

Similar marks of reference denote the same parts.

My invention relates to a mode of applying a fuse to the touch-hole of a cannon, mortar, or other gun, whereby to fire one or several cannon at exactly the desired time. For this purpose I employ a tape-fuse, and the explosive powder set forth in Letters Patent, September 15, 1857, to Edwin Gomez and Wm. Mills, is preferable for this purpose, and the flat or tape fuse may be formed of folded paper containing the powder, as set forth in my patent of August 9, 1859.

The ordinary touch-holes of ordnance are too small for the introduction of tape-fuse, and besides which, if introduced partly into the touch-hole, the fuse could not be extended to other cannon for simultaneous discharge.

The nature of my said invention consists in perforating the fuse at the touch-hole and pressing the same to the gun at this point by means of a suitable clamp. By this means I am enabled to force the fire into the touch-hole as it emerges from said perforation, and where several guns are to be fired simultaneously the fuse can be passed on from one to the other, the perforation in no instance cutting off the travel of the fire.

In the drawings, *a a* represent cannon, mortars, or other ordnance, and *b* is the touch-hole, Fig. 1. *d* is the fuse, perforated as at *i*, Fig. 2, over the touch-hole, and *c* is any suitable clamp to press the fuse to the gun. I have shown the clamp *c* as provided with a screw passing through the arm *e*; but the said clamp may be attached in any other convenient manner, and when the fuse is exploded or fired the gun is discharged with unerring certainty, the fire passing to the touch-hole from the perforation *i*.

In firing upon vessels or upon fortifications a large number of heavy balls simultaneously fired at one point will make a breach. To effect this I can take any desired number of cannon, aim them accurately at a given point, and fire them almost simultaneously by the aforesaid fuse. I have found, practically, that the fuse formed under the aforesaid patent will explode at the rate of one mile in about four seconds; hence, by placing the second cannon slightly in advance of the first and so on, as indicated in Fig. 3, the slight loss of time in communicating from one cannon to the next will be compensated for in the second, being nearer to the object fired at. This perforated fuse may be employed with a gun or cannon having two or more touch-holes for firing several balls in succession, or for firing successive charges of powder to accelerate the ball.

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

The perforated fuse clamped to the cannon, mortar, or similar article at the touch-hole, for the purposes and substantially as set forth.

In witness whereof I have hereunto set my signature this 16th day of October, 1861.

EDWIN GOMEZ.

Witnesses:

LEMUEL W. SERRELL,  
THOS. GEO. HAROLD.