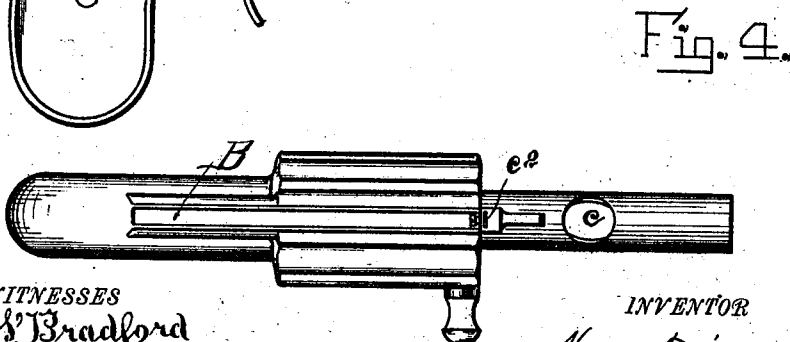
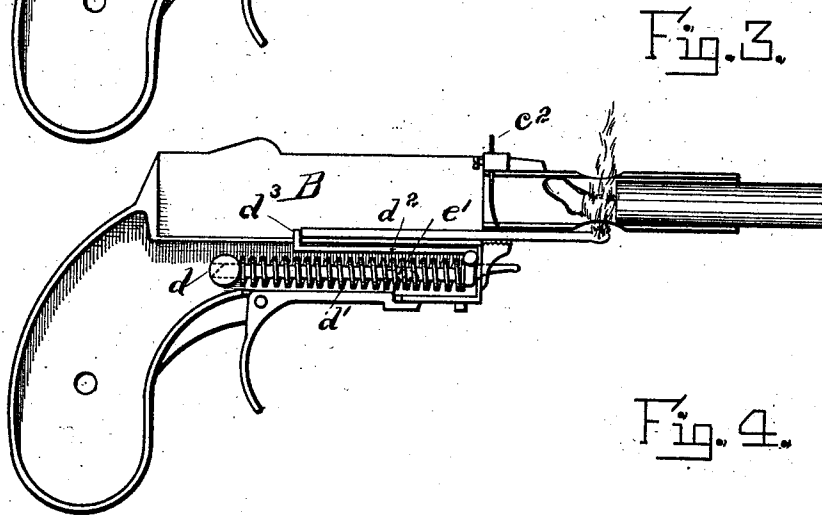
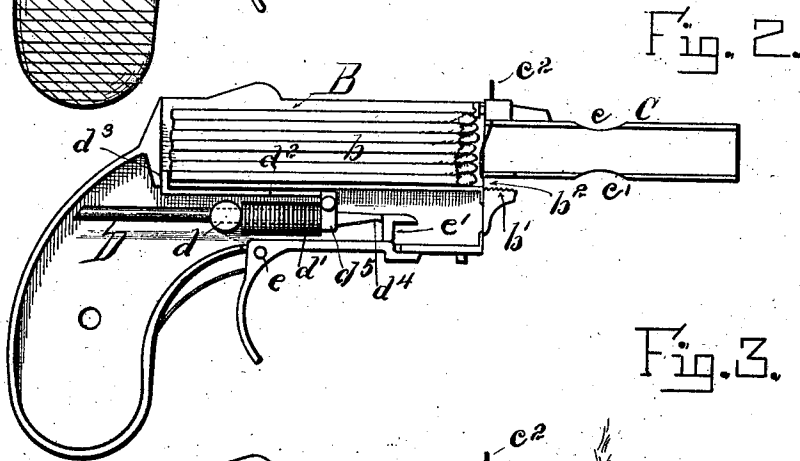
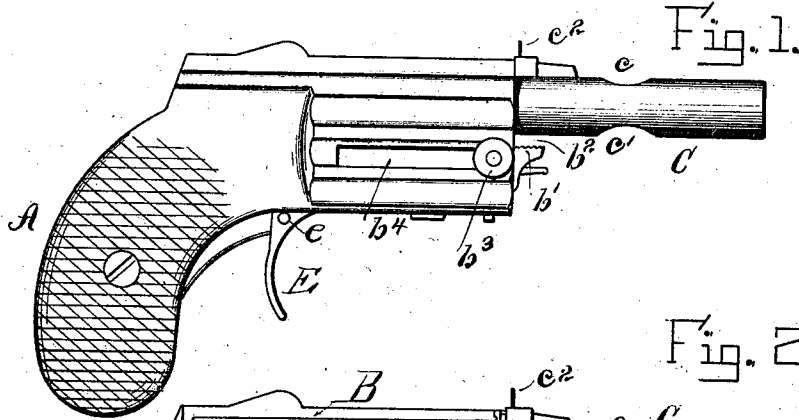


(No Model.)

H. TIDEMAN.
TOY PISTOL.

No. 496,545.

Patented May 2, 1893.



WITNESSES
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UNITED STATES PATENT OFFICE.

HENRY TIDEMAN, OF DETROIT, MICHIGAN.

TOY PISTOL.

SPECIFICATION forming part of Letters Patent No. 496,545, dated May 2, 1893.

Application filed January 13, 1892. Renewed February 25, 1893. Serial No. 463,773. (No model.)

To all whom it may concern:

Be it known that I, HENRY TIDEMAN, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Toy Pistols; and I declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to toy pistols for use in discharging fire crackers.

Its object is to produce a device adapted to receive the fire cracker and retain it in a fixed position with the fuse of the fire cracker in a position to be lighted by the flame from a match that has been ignited by the hammer of the pistol.

Heretofore toy pistols have been used, adapted to receive and hold a fire cracker, and having a receptacle in which to light punk or other material from which the fire cracker might be lighted; but I am not aware that a toy pistol has ever been used, adapted to receive the fuse end of the fire cracker and to light the fuse by pulling the trigger of the pistol.

In carrying out the object of my invention, any suitable fuse may be employed, in place of the match shown in the drawings, for lighting the fire cracker, the fuse in the pistol being provided in sections or otherwise, so as to successively present a portion to be lighted by the hammer.

It is manifest that the broad idea of my invention is the use of a fulminate stored in the pistol and adapted to be fired by the hammer or equivalent means within the pistol, and lighting the fuse of the fire cracker by this fulminate as it explodes or burns.

In the construction shown and described by me in this application, I employ an ordinary parlor match adapted to light readily, and provide means within the pistol to force this match through and underneath the barrel so that the flame of the match in burning will enter an opening in the under side of the barrel and light the fuse of the fire cracker. Situated near the opening through which the head of the match is forced, I provide any

suitable means for producing a friction on the match for igniting it.

In the drawings, Figure 1 is a side elevation of the pistol. Fig. 2 is a vertical section showing the match chamber filled and the device set ready to discharge a match. Fig. 3 is a vertical section showing the position of the parts after the match has been discharged from the pistol and lighted, and the manner in which the match lights the fire cracker. Fig. 4 is a plan view.

In the drawings, A is the handle or stock of the pistol.

B is a match chamber, occupying the upper portion of the pistol, and is of just sufficient width to accommodate one match, and of sufficient depth to accommodate a number of matches, as shown at *b* in Fig. 2.

C is the barrel having an opening *c* in the top and an opening *c'* in the bottom, making a passage up through, about midway of the barrel.

c² is a spring supported above the barrel and extending down through it, leaving sufficient space below the lower end of the spring for one match to pass out under the spring. The lower surface *b'* of the opening *b²*, through which the match is forced, is serrated or roughened to produce sufficient friction to ignite the match, and the operation of the spring *c²* is to force and hold the match down on this friction surface.

D is a bolt having a horizontal movement in the piston, and supported in the lug *d*. This lug is cast solid with the body of the pistol. On the bolt is mounted the spring *d'*, adapted to force the bolt forward in the pistol into the position shown in Fig. 3. On the outer or forward end of the bolt is supported the bar *d²*, provided with a lug *d³* adapted to engage the lower match, as shown in Fig. 2, and when the bolt D is forced forward by the spring *d'*, to force the match out through the pistol and light it as before described.

Attached to the bar *d²*, and extending out through a slot *b⁴* in the case, is the pin *b⁵*, by which the rod D is forced back against the action of the spring *d'* into a position for locking and for engaging a second match.

E is a trigger, pivoted at *e* and extending forward, and provided with a portion *e'* extending up into the pistol to form a stop to

hold and lock the bolt D into a position ready for firing.

On the frame d^3 , and set off to one side, is the portion d^4 . The portion e' of the trigger is also set to one side to permit the spring and the bar d^2 to pass by it when the trigger is drawn out of engagement with the portion d^4 . The position that these parts take after firing is shown in Fig. 3, where the part e' is shown in dotted lines as having a position beyond the bolt D and the spring D' .

The operation of the pistol is as follows: The chamber B is filled with matches and the lock drawn back by means of the pin b^3 , and locked in position, as shown in Fig. 2. The fire cracker is then inserted in the end of the barrel with the fuse in the barrel between the openings c and c' . By pulling the trigger, the bolt D is permitted to force the bar d^2 forward, carrying with it the lower match, which, as it passes out through the opening b^2 , is lighted and forced forward until the lighted end comes underneath the opening c' , which permits the flame of the match to pass up through the barrel and ignite the fuse of the fire cracker. As the fire cracker may be forced into the barrel far enough so that the end comes near the openings c and c' , the flame of the match lights the fuse very close to the fire cracker, and the explosion of the fire cracker follows immediately after the explosion of the match.

I would have it understood that my invention is not limited to the use of the ordinary parlor match, but that, as before stated, a continuous detonating fuse may be employed in place of the series of matches, a section of the fuse being exploded on each stroke of the hammer or equivalent means employed within the pistol. I do not deem it necessary to show or describe in detail any such construction, as the form shown is simple, and employs materials commonly used and sold.

I am not aware that a fire-arm has ever been used, adapted to employ an ordinary match for igniting an explosive in the barrel. By the use of the construction shown by me, for forcing the matches from the body of the pistol and igniting them adjacent to the barrel, a barrel may be employed with a vent at the point where the match is ignited, and the explosive fired by an ordinary match; and I

would have it understood that my invention covers the employment of explosives in the barrel of the pistol, whether the same be contained in a fire cracker or be placed in the barrel in the form of cartridges or otherwise.

What I claim is—

1. In a toy pistol, the combination of a barrel for supporting a fire cracker, and means for discharging a fulminate for lighting the fuse of said fire cracker, substantially as described.

2. In a toy pistol, the combination of a barrel for supporting a fire cracker, a hammer, and means for lighting the fuse of said fire cracker by the operation of said hammer, substantially as described.

3. In a toy pistol, the combination of a barrel for supporting a fire cracker, and means within said pistol for igniting a match for lighting said fire cracker, substantially as described.

4. In a toy pistol, the combination of a barrel for supporting a fire cracker, a match receptacle, and means for forcing a match from said receptacle and lighting the same, substantially as described.

5. In a toy pistol, the combination of a barrel for supporting a fire cracker, a match chamber adapted to receive one or more matches, and means for forcing the matches successively from said chamber and lighting them, substantially as described.

6. In a toy pistol, the combination of a barrel for supporting a fire cracker, a match chamber adapted to retain one or more matches, and a bolt for discharging the matches from said compartment successively, substantially as described.

7. In a toy pistol, the combination of a barrel adapted to contain an explosive, a match chamber adapted to receive one or more matches, and means for forcing the matches from said chamber and igniting the same for lighting the explosive in said barrel, substantially as described.

In testimony whereof I sign this specification in the presence of two witnesses.

HENRY TIDEMAN.

Witnesses:

CHAS. H. FISK,
MARION A. REEVE.