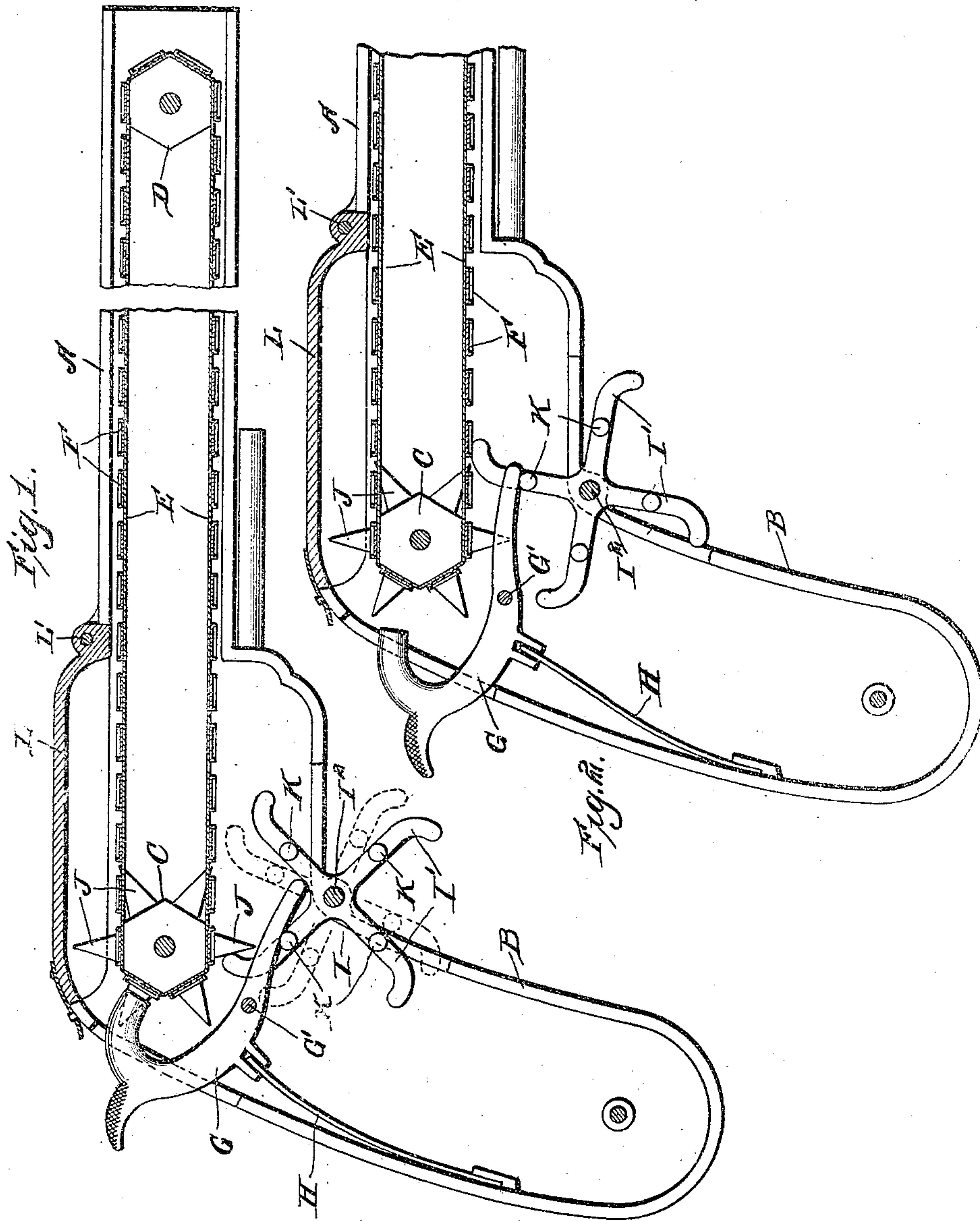


No. 751,039.

PATENTED FEB. 2, 1904.

G. J. ALTERMATT.
MAGAZINE CAP PISTOL.
APPLICATION FILED APR. 3, 1903.

NO MODEL.



Witnesses:

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UNITED STATES PATENT OFFICE.

GEORGE J. ALTERMATT, OF PHILADELPHIA, PENNSYLVANIA.

MAGAZINE CAP-PISTOL.

SPECIFICATION forming part of Letters Patent No. 751,039, dated February 2, 1904.

Application filed April 3, 1903. Serial No. 150,891. (No model.)

To all whom it may concern:

Be it known that I, GEORGE J. ALTERMATT, a citizen of the United States, residing at Philadelphia, county of Philadelphia, and State of Pennsylvania, have invented a certain new and useful Improvement in Magazine Cap-Pistols, of which the following is a specification.

My invention relates to a new and useful improvement in magazine cap-pistols, and has for its object to provide a toy pistol in which a large number of caps may be placed which may be exploded successively without reloading the pistol until the whole series of caps have been discharged; and a further object of my invention is to so construct the pistol that the movement of the trigger will raise the hammer, spring a new cap into position to be exploded, and release the hammer. This is all accomplished with a comparatively simple mechanism, so that the pistol may be manufactured and sold at a low cost and still be exceedingly durable and efficient in operation.

With these ends in view this invention consists in the details of construction and combination of elements hereinafter set forth, and then specifically designated by the claims.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, the construction and operation will now be described in detail, referring to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a longitudinal section through the pistol; Fig. 2, a similar view to Fig. 1, showing the hammer raised and about to be released.

A represents the barrel of the pistol, and B the handle thereof. The frame is preferably made of metal and cast in two halves, said halves being secured together at different points by rivets or bolts, as is usually done on toy pistols of this character.

Inside the body of the pistol and near the rear end thereof is a drum C, and in the body near the muzzle or outer end of the barrel A of the pistol is journaled a similar drum D, and these drums may be round, but are preferably polygonal in cross-section, as shown in the drawings.

E is the endless tape or band, which passes around the two drums C and D.

F represents small cap-retainers secured at intervals to the band E, and the paper caps are designed to be pressed into these retainers and will be held therein by the friction of the cap against the wall of the retainer.

G is the hammer, which is pivoted to the body of the pistol at the point G'.

H is a spring for throwing the hammer against the cap when said hammer is released. This spring is so constructed and secured to the hammer that the normal position of the hammer will be at a slight distance from the cap, as shown in Fig. 1.

I represents the trigger mechanism, which consists of preferably four arms I', radiating from a common center and pivoted at the point I² to the body of the pistol forward of the handle, as shown in the drawings.

Secured to the drum C or upon the same shaft is a star-wheel, consisting of the points J. One of the arms I' is always in a position to be used as a trigger, and by pulling this arm rearward and rotating the arms upon the pivot I² the arm opposite that used as a trigger will come in contact with the lower point J of the star-wheel and revolve the drum C one point or space, and thus bring a new cap in position to be struck by the hammer. Each of the arms I' is provided with projection K upon the side, and when the trigger is operated one of these projections is designed to come in contact with the heel end of the hammer, and thus pull the hammer back by rocking the same upon its pivot against the action of the spring H, and the hammer is being pulled backward as the star-wheel is revolved, and the last movement of the trigger will move the projection K from underneath the heel end of the hammer and allow the hammer to descend under the pressure of the spring and discharge the cap. Thus at each movement of the trigger, or, in other words, upon each quarter-revolution of the trigger mechanism, a new cap will be placed in position to be discharged by the hammer, and the hammer will be raised and allowed to descend, and this may be continued until the caps have all been discharged within the retainers.

For the purpose of loading the pistol—that is, in placing the caps within the retainers—any portion of the body of the pistol may be

made removable. In the drawings I have shown a cover L, designed to close an opening located upon the upper portion of the body directly above the rear of the tape or band. This cover is hinged at the point L' and may be secured in place by any suitable fastening, and the cover when in place will conform to the shape of the body. By throwing back the lid or cover L and by moving the trigger-arms to the position shown in dotted lines in Fig. 1 the caps may be inserted in the retainers and the tape revolved by hand until each retainer is filled. By making the drum C polygonal a flat surface is provided, upon which the cap may be exploded.

Of course I do not wish to be limited to the exact construction here shown, as slight modifications could be made without departing from the spirit of my invention.

Having thus fully described my invention, what I claim as new and useful is—

1. In a magazine cap-pistol, a body, a drum or roller journaled upon the interior of the body near the rearward end, a drum or roller journaled upon the interior of the body near the forward end, an endless band or tape passing around said drums or rollers, means for securing caps upon the tape at regular intervals, a hammer pivoted in the body, a spring adapted to actuate the hammer in one direction to explode the cap, a trigger mechanism adapted to revolve the tape a distance equal to the distance between adjacent caps, and also throwing back the hammer and releasing the same each time the trigger mechanism is operated, as specified.

2. In a magazine cap-pistol, a body, an endless band or tape contained in said body, means for securing caps upon the tape at regular intervals and equal distances apart, rollers or drums around which said endless band or tape passes, a hammer pivoted in the body, a spring adapted to actuate the hammer to explode the cap, a trigger adapted to revolve the tape one point or space, and actuate the hammer each time the trigger is pulled rearward, as specified.

3. In a magazine-pistol, a body, a drum or

roller journaled in the body near the rear end thereof, a drum or roller journaled in the body near the forward end thereof, an endless flexible band or tape passing around said rollers or drums, cap-retainers secured to said band or tape at regular intervals, a star-wheel secured to the same shaft as the rearward drum or roller, a hammer pivoted in the body, a spring for actuating said hammer, a trigger composed of four radial arms pivoted at the center to the body, one of the arms adapted to always act as a trigger and to be used successively as triggers, the arm opposite the trigger-arm adapted to come in contact with the star-wheel and revolve the tape one space, and also to throw back the hammer and release the same each time the trigger is pulled rearward, as specified.

4. In a magazine cap-pistol, a body, a polygonal drum or roller journaled in the body near the rearward end thereof, a drum or roller journaled in the body near the forward end thereof, a flexible band or tape passing around said drums or rollers, retainers adapted to contain the caps secured to the band at regular intervals, a hammer pivoted in the body and adapted to explode the cap against one of the faces of the rearward polygonal roller, a spring for actuating said hammer in one direction, a trigger mechanism consisting of a series of radial arms pivoted in the body, the arms adapted to be used successively as triggers, means whereby one of the arms not being used as a trigger will rotate the tape or band one space so as to bring a new cap into position, and will also throw the hammer back and release the same when the trigger is pulled rearward, and an opening through the body for filling the retainers, a lid or cover designed to close said opening, as specified.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses.

GEORGE J. ALTERMATT.

Witnesses:

MARY E. HAMER,
L. W. MORRISON.