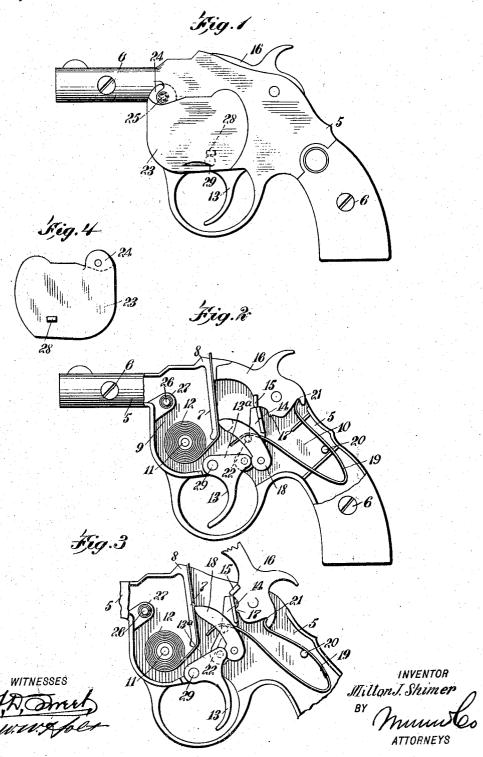
M.-J. SHIMER.

TOY PISTOL.

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UNITED STATES PATENT OFFICE.

MILTON J. SHIMER, OF BETHLEHEM, PENNSYLVANIA.

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Specification of Letters Patent. Patented Mar. 15, 1910.

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To all whom it may concern:

Be it known that I, MILTON J. SHIMER, a citizen of the United States, and a resident of Bethlehem, in the county of Northampton and State of Pennsylvania, have invented a new and Improved Toy Pistol, of which the following is a full, clear,

and exact description.

The invention is an improvement in auto-10 matic toy pistols in which the caps in the form of a tape are fed under the hammer in successive order at each pull of the trigger, and has in view in such a construction, means to retain the hammer and cap-feeding 15 finger in retracted positions to enable the ready insertion of the cap tape over the feeding plate and anvil when the tape is renewed. Further, to provide a cap chamber cover mounted to swing edgewise to and 20 from a closed position and having a slight lateral movement to lock and unlock it on its seat, also, to return the hammer and cap-feeding finger when released and press the finger to the feed plate by means of a 25 single spring.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all

30 the views.

Figure 1 is a side view of a pistol constructed in accordance with my invention; Fig. 2 is a similar view of the pistol partly broken at one side to show the working mechanism; Fig. 3 is a view similar to Fig. 2, showing the feeding finger and hammer in their uppermost positions preparatory to the automatic release of the hammer; and Fig. 4 is an inner face view of the cap cham-

The pistol to which my improvements are applied is preferably made of two longitudinal half sections 5, 5, removably or otherwise secured together by screws or 45 other equivalent devices 6, 6, as is the conventional practice. A feed plate 7 is cast or otherwise rigidly formed on one of the half sections of the pistol and is continuous with a cap anvil 8, the lower portion of the 50 feed plate terminating a substantial distance from the bottom of the casing and dividing the intermediate portion of the pistol into a cap chamber 9 and a hammer and feed chamber 10, the cap chamber having a projecting stud or pin 11 for carrying a continuous length or tape of caps 12, the free is returned to normal position under the

end of the tape being passed over the inner faces of the feed plate and anvil. A trigger 13 is pivotally supported between the two sections of the pistol and has a rearwardly- 60 extending arm 13a to which is fulcrumed a hammer-operating dog 14, the dog normally engaging a rib or projection 15 on the under edge of a hammer 16. The hammer is further provided with a rib or projection 17 to 65 the rear and slightly below the projection 15.

Pivotally supported on the lower portion of the dog 14 to the rear of its connection with the trigger is a cap feed finger 18, the feed finger and hammer being both forced 70 toward the feed plate and anvil respectively, by a spring 19. This spring is of hairpin form, with the upper rear portion engaging over a fixed pin or projection 20, and the end portions respectively engaging in a notch 21 in the back of the hammer, and over a pin or projection 22 extending from

one side of the finger 18.

One side of the cap chamber 9 is closed by a cover 23, preferably of the form shown in Fig. 1, and provided with an extended ear 24 at its outer upper corner; as best shown in Fig. 4. This ear is inset slightly from the cover and is arranged on the inner side of an ear 25, projecting from a fixed 85 part of this section of the pistol, to which the cover is pivotally connected by a stud or pin 26, the same carrying a spring 27 tending to press the cover flat to its seat. The opening in the ear 24 of the cover, receiving the pin 26, is sufficiently large to permit the free edge of the cover to be moved outwardly from the side of the pistol against the tension of the spring 27 in order that a projection 28 formed on the inner face of 95 the cover may be disengaged from the pivot pin 29 of the trigger, these devices engaging, as indicated in dotted lines in Fig. 1, and locking the cover in place.

In pulling the trigger of the pistol, the 100 dog 14 retracts the hammer against the tension of the spring until the point of the dog passes over the projection 15, when the hammer is released and forced to the anvil, where the cap is fired. During the pulling 105 of the trigger, the upward movement of the dog carries with it the cap feed finger 18, which slides the cap tape over the feed plate to place the top cap on the anvil. When the trigger is released, it, together with the 110 hammer-operating dog and cap feed finger,

action of that arm of the spring which forces the feed finger to the feed plate. During this movement of the finger the cap tape is stationarily held by the hammer.

When renewing or removing the cap tape the hammer is retracted with the finger of the hand until the projection 17 engages the point of the dog 14, when the hammer is held in cocked position. The cap feed finger is also retracted by pushing it to the upper portion of the dog 14, where it is held by the friction of the spring on the pin or projection 22. With the hammer and finger thus disposed, a clear space over the inner face of the feed plate and anvil is provided, enabling the ready removal or insertion of

Having thus described my invention, I claim as new and desire to secure by Letters 20 Patent:

1. In a cap pistol, a feed plate, a hammer, a trigger, a dog pivoted to the trigger and operatively engaging the hammer, a capfeed-finger pivoted to the dog at a point to 25 cause the dog to tend to swing outwardly from the plate against the hammer when the cap-feed-finger is pressed to the plate, and a spring pressing the cap-feed-finger to the plate.

2. In a cap pistol, a feed plate, a pivotally-supported trigger having a rearwardly-projecting arm, an anvil, a hammer having a projection on its under edge, a dog fulcrumed to the arm of the trigger and adapts of the edge, a cap feed finger fulcrumed on the trigger, a cap feed finger fulcrumed on the dog, and a spring having two arms, one of which is engaged with the hammer, tending to force it to the anvil, and the other engaged with the feed finger, forcing it against the feed plate and tending to return

the finger, dog and trigger to normal posi-

3. In a cap pistol, a hammer having a 45 projection, a trigger, a dog fulcrumed on the trigger, arranged to engage the projection and retract the hammer under the action of the trigger, a cap feed finger fulcrumed on the dog, a spring tending to force the trigger, dog and finger to normal position and swing the finger forwardly and downwardly on its pivot, said spring arranged to retain the finger in a retracted position when the finger is moved toward the dog, and a second 55 projection in connection with the hammer, adapted to engage the dog and retain the hammer in cocked position.

hammer in cocked position.

4. In a pistol having a cap chamber, a cover to close the side of the chamber, pivotally supported to swing edgewise to and from closed position and having a slight lateral movement, a spring arranged to press the cover laterally to its seat, and means to lock the cover in place, engaged and disengaged by the lateral movement of the cover.

5. In a pistol having a casing provided with a cap chamber, a pivot pin, a cover to close the side of the chamber, having an ear extended from one corner, passing under the casing and loosely engaged with the pivot pin, a spring arranged on the pivot pin, pressing the ear of the cover outwardly, a projection carried by the casing, and a projection on the inner face of the cover readapted to engage the first-named projection and lock the cover in place.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MILTON J. SHIMER.

Witnesses:

S. D. SHIMER, HARRY J. MIKSCH.