

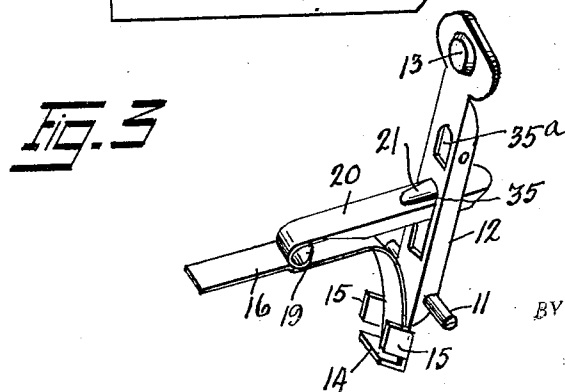
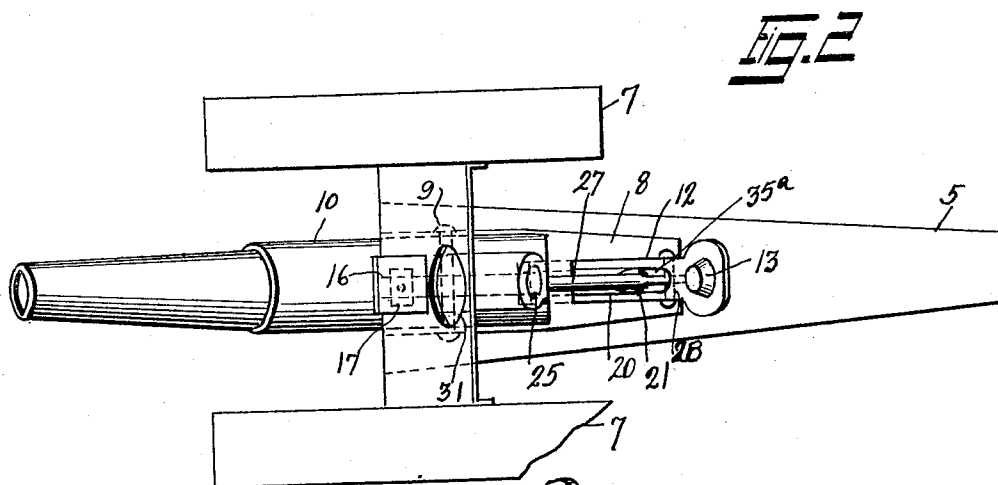
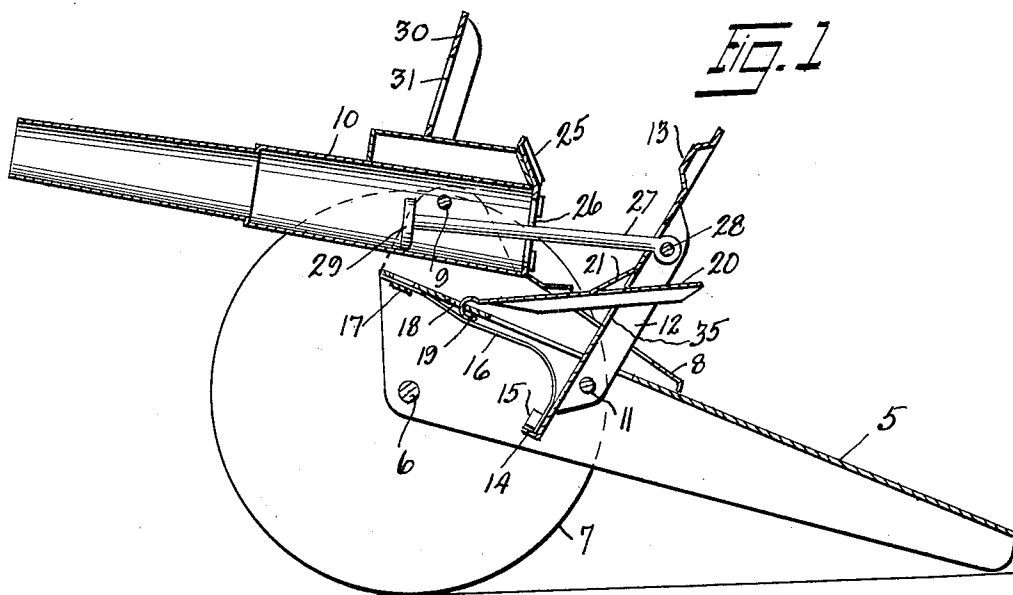
Nov. 17, 1931.

S. I. BERGER

1,832,177

TOY CANNON

Filed July 3, 1930



INVENTOR.

*Samuel I. Berger*

BY

*Maurice Bloch*

ATTORNEY.

## UNITED STATES PATENT OFFICE

SAMUEL I. BERGER, OF NEWARK, NEW JERSEY

## TOY CANNON

Application filed July 3, 1930. Serial No. 465,524.

This invention relates to toy cannons or similar articles, such as cap pistols or the like, and more particularly to the trigger and hammer construction of such toy devices.

6 One of the objects of the invention is to provide a toy cannon or the like, with a pivotally mounted hammer and a similarly mounted trigger, in cooperative relation with each other under the influence of a single  
10 spring.

Another object of the invention is to provide a toy cannon with a trigger and hammer arrangement of the nature referred to, together with a piston-like expeller connected  
15 to the hammer in such a manner so as to project a projectile from the cannon when the said hammer is released to fire off a cap.

Another object is to produce a device of the character described in which the maximum simplicity of construction and operation  
20 is secured.

Other objects and advantages will appear as the nature of the improvements is better understood, the invention consisting substantially in the novel arrangement and correlation of parts herein fully described, and illustrated in the accompanying drawings, wherein similar reference characters are used  
25 to describe corresponding parts throughout the several views, and then finally pointed out and specifically defined and indicated in the appended claims.

The disclosure made the basis of exemplifying the present inventive concept suggests a practical embodiment thereof, but the invention is not to be restricted to the exact details of this disclosure, and the latter, therefore, is to be understood from an illustrative, rather than a restrictive standpoint.

30 The inventive idea involved is capable of receiving a variety of mechanical expressions, one of which, for the purpose of illustration, is shown in the accompanying drawings, in which

35 Figure 1 is a longitudinally sectional view through a cannon embodying my invention.

Figure 2 is a top plan view thereof, and

40 Figure 3 is a perspective view of the trigger and hammer combination.

50 Referring now to the drawings in detail

5 indicates the truck portion of my improved toy cannon. Rotatably mounted in the said truck 5 is a cross shaft 6 to which there is secured a pair of ground engaging wheels 7 for supporting and propelling the toy  
55 along the ground.

Secured to the upper front portion of the truck 5 is a housing or frame 8 which in turn supports on a cross pin 9 the body portion of a cannon 10.

Pivotally mounted on a pin 11 in the truck 5 is an arm 12 provided at its upper end with a hammer head 13 and at its lower end with an end projection 14 and side projections 15. Abutting the said projection 14 and located between the lugs or projections 15 is a flat metal spring 16, which at its forward end is anchored to the truck 5 as at 17. Somewhat to the rear of the anchorage 17 is an opening 18 for pivotally  
60 receiving a bent over ear 19 of a trigger arm 20 provided with a lip 21 adapted to engage the hammer arm 12 when the said hammer arm is in the extended or firing position, the said trigger and hammer arm being maintained in the said position by the tension  
65 of the spring 16.

The rear of the cannon 10 is provided with an angularly disposed dished plate 25 adapted to receive a paper percussion cap. The said rear portion is also provided with a slot 26 through which passes a rod 27 pivotally mounted on a pin 28 in the hammer arm 12, and provided at its forward end with a head 29 which fits loosely in the bore of the  
80 cannon 10.

A front plate 30 through which the cannon 10 projects is secured to the forward end of the truck 5 and has punched therein an opening 31 so that by sighting through the said opening and through the rear thereof, the cannon may be properly pointed at some object.

To operate the cannon the hammer arm is drawn back to the Figure 1 position, a  
85 cap is inserted into the plate 25 and the trigger arm 20 is depressed far enough for the lip 21 to come below the top of the opening 35 in the hammer arm 12 and permit same to be operated by the spring 16 to  
90 100

strike the cap in the plate 25. The rod 27 passes through an opening 35a in the hammer arm 12 and is pivoted to the sidewalls thereof in the hammer arm 12. It will be  
5 seen that simultaneously with the striking movement of the hammer, the rod 27 carrying the head 29 is also carried forward and any projectile which may be inserted into the bore of the cannon, will be expelled there-  
10 from by the said headed rod or expeller.

From the foregoing it will be seen that I have provided a simple yet efficient hammer and trigger arrangement for toy can-  
15 nons or the like, comprising a pivotally mounted trigger, a similarly mounted hammer arm and a single spring for controlling and operating the said trigger and hammer.

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

1. A hammer and trigger mechanism for toy firing arms, comprising a support, a slot-  
25 ted arm pivotally mounted intermediate its ends on the said support, a hammer at one end of the arm, a projection at the opposite end of the arm, a pivotally mounted trigger passing through the slot in the hammer arm, a lip on the trigger normally in engagement with the hammer arm, and a leaf spring  
30 secured at one end to the support and in engagement with and exerting a tension against the projection at the opposite end of the said hammer arm, and against the trigger.

2. A toy cannon, comprising a support-  
35 ing truck, a slotted arm pivotally mounted intermediate its ends on the said truck, a cap hammer at one end of the said arm, a projection at the opposite end of the hammer arm, a leaf spring secured at one end  
40 to the truck and at its opposite end in engagement with the projection on the hammer arm, a trigger pivotally mounted on the truck and extending through the slot in the hammer arm, a lip on the trigger in  
45 engagement with the hammer arm, a cap holder on the cannon, and an expeller secured to the said arm and extending through the bore of the cannon for the purpose specified.

3. A hammer and trigger mechanism for  
50 toy firing arms, comprising a support, a slotted hammer arm pivotally mounted thereon, a similarly mounted trigger passing through the slot, a lip on the trigger in operative engagement with the hammer  
55 arm, and a spring in direct engagement with the trigger and hammer arm.

SAMUEL I. BERGER.