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TOY.

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To all whom it may concern:

Be it known that I, WESLEY J. CARTER, a citizen of the United States, residing at Tremonton, in the county of Boxelder and State of Utah, have invented new and useful Improvements in Toys, of which the following is a specification.

The invention relates to toys, and has for an object to provide a cannon or projecting device for use in throwing projectiles.

The invention contemplates, among other features, a toy cannon consisting of few and simple parts and which can be readily operated to effectively project a ball or small projectile a considerable distance and with considerable force.

In the further disclosure of the invention reference is to be had to the accompanying drawings, constituting a part of this specification, in which similar characters of reference denote corresponding parts in all the views, and in which:

Figure 1 is a side elevation of the cannon; Fig. 2 is a vertical longitudinal sectional view taken through the cannon; Fig. 3 is a vertical transverse sectional view taken on the line 3—3 in Fig. 1; and Fig. 4 is a side elevation of the ram rod.

Referring more particularly to the views, I provide a carriage 10 and which consists of a plurality of sections 11 that are suitably riveted together to form a mounting for the cannon and include studs 12 on which are mounted a plurality of wheels 13; the sections 11 each including a rail portion 14 forming a tail piece 15 constituting a part of the base of the cannon.

The cannon proper consists of a tubular body 16 formed with a bore 17 and which has opposed trunnions 18 journaled in upstanding bearings 19 forming parts of the sections 11 of the carriage 10. Mounted to swing upon the carriage 10 is a lever 20 having its inner end formed with a preferably rounded head 21 bearing against the under side of the inner end of the body 16, the cannon being adapted to be raised or lowered for the purpose of sighting the same by operating the rear or free end of the lever. A spring 22 is secured to the carriage and has a free end bearing against the under side of the body 16 to normally hold the cannon proper at its greatest elevation and when a downward pressure is exerted on the rear end of the lever 20 it will be apparent that the front end of the cannon proper will

be swung downwardly into a horizontal position or lower, as desired, for the purpose of sighting the cannon.

Mounted to slide in the bore 17 is a plunger 23 formed with a rearwardly extending projection 24 terminating in a hook 25, said plunger being engaged by a spring 26 arranged in the bore and bearing against an annular seat or face 27 of the plunger. The plunger is guided in its movement in the bore by having a pin or projection 28 extending upwardly therefrom and operating in a groove 29 formed in the body 16, said pin limiting the forward movement of the plunger by abutting against one end of the groove.

The breech of the cannon proper is indicated by the numeral 30 and consists of an end piece 31 suitably secured to the rear end of the body by having suitable screws 32 passing through the body and into indentations 33 in forwardly extending lips 34 formed with the end piece 31. The end piece is provided with a longitudinal passage 35 in which is secured a spring 36 having an end thereof secured to and supporting a trigger 37, a head end 38 of which projects exteriorly of the breech or end piece, with the inner end of the trigger formed with a hook 39 adapted to engage a hook 25.

In the use of the cannon described there is provided a suitable ram rod 40 and when it is desired to load the cannon the ram rod is pushed into the front end of the cannon to bear against the plunger and move it backwardly against the action of the spring 26 until the hooks 25 and 39 engage, thus holding the plunger in its rearward position, with the spring compressed. The ram rod is now removed and a suitable projectile (not shown) in the nature of a ball or the like is placed in the front end of the cannon proper and rammed home with the ram rod so that the projectile will abut against the forward end of the plunger. Now by pressing down on the headed end 38 of the trigger it will be seen that the forward end of the trigger will be moved upwardly, thus disengaging the hook 39 from the hook 25 and releasing the plunger so that it will spring forward due to the action of the spring 26, the forward movement of the plunger being limited by the pin or projection 28 striking the end wall of the groove 29, and it will thus be seen that the forward impetus given

to the plunger by the spring 26 will shoot the projectile out of the front end of the gun proper and project it a considerable distance under the force received from the
5 expanding action of the spring.

From the foregoing description it will be apparent that the device described is of a simple construction, consists of few parts that can be readily operated by a child.

10 The cannon may be used in mimic warfare and in conjunction with a fort or the usual toy soldiers that children generally play with.

Having thus described my invention, I
15 claim:

1. A toy gun comprising a carriage, a gun body pivoted to swing on said carriage, a spring on the carriage and engaging the gun to normally hold the same in elevation, a
20 lever pivoted on the carriage, and a head on the inner end of the lever and engaging the gun body for swinging the same against the action of said spring.

2. A gun comprising a carriage, a gun

mounted to swing thereon, a spring on said 25 carriage and engaging said gun to normally hold the same elevated, a plunger slidably mounted in said gun body and having a hook terminal, a cap closing one end of said gun, said cap having a longitudinal recess 30 communicating with the bore of said gun, a spring pressed pivoted hook element adapted to engage the hook terminal of said plunger to hold the latter in retracted position, a coil spring arranged within said gun 35 and bearing against said plunger and cap, said spring operating to project said plunger forwardly upon release thereof from said hook element, and a projection on said plunger movable in a groove in the gun to 40 guide and limit the movement of said plunger.

In testimony whereof I affix my signature in presence of two witnesses.

WESLEY J. CARTER.

Witnesses:

JOSEPH JENSEN,
JOHN J. SHUMWAY.