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PROVISIONAL SPECIFICATION.

"Improvements in and connected with Toy Cannons or Guns."

I, JAMES SIDNEY RENVOIZE, of 42, Kingsland Road, Shoreditch, London. Toy Manufacturer. do hereby declare the nature of this invention to be as follows:—

The object of this invention is improvements in or connected with toy cannons, guns, or the like, whereby the barrel can be easily raised and lowered for sighting and be held in the adjusted position ready for firing a missile or missiles as well as exploding a cap or detonator, both these actions occurring simultaneously, the operations being performed by any suitable means, preferably by a pull on a string to release the trigger.

For the purpose of my invention I make the gun carriage of any desired shape and mount thereon the axle which carries the wheels and the gun and also the trigger mechanism.

The gun proper is made with projecting lugs having a space between them which also extends to the breech the rear end of which is open. These lugs have holes in them for mounting the gun upon the axle, and between the lugs is pivotted, also on the axle, the trigger which besides striking the cap or detonator also expels the missile.

A block or appliance is provided for insertion into the breech and such block is made with part, of a shape corresponding approximately to the shape of the upper or striking and ejecting part of trigger, and capable of retaining a cap or detonator preferably by an under cut in a portion thereof, so that on the insertion of a missile and the block having a cap or detonator affixed, the trigger will at one operation explode the detonator and eject the missile, the block being retained in position in the breech for firing by any means or by its own grip.

The trigger is acted upon by a spring, preferably of the flat kind and secured to the gun carriage for holding it in the cocked position and for forcing it home to strike the detonator and eject the missile, and such trigger is provided with suitable means for operation, but preferably has a cord attached which is carried to the rear of the carriage.

On the carriage I arrange a screwed rod for carrying a nut into a groove on which rides a projecting stud of the gun, so that by action on the nut the gun can be elevated or lowered to suit the firing.

Dated this 29th day of November 1900.

R. CORE GARDNER

Chartered Patent Agent, 166 Fleet Street, London.
Agent for the said:—J. S. Renvoize.

COMPLETE SPECIFICATION.

"Improvements in and connected with Toy Cannons or Guns."

I, JAMES SIDNEY RENVOIZE, of 42, Kingsland Road, Shoreditch, London. Toy Manufacturer. do hereby declare the nature of this invention and in what
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Renvoize's Improvements in and connected with Toy Cannons or Guns.

manner the same is to be performed to be particularly described and ascertained in and by the following statement:—

The object of this invention is improvements in or connected with toy cannons, guns, or the like, whereby the barrel can be easily raised and lowered for sighting and be held in the adjusted position ready for firing a missile or missiles as well as exploding a cap or detonator, both these actions occurring simultaneously, the operations being performed by any suitable means, preferably by a pull to release the trigger.

My invention will be understood by the following description aided by the accompanying drawings in which

Figure 1 is a part sectional side elevation of a cannon embodying my invention.

Figure 2 is a section on the line *a a* of Figure 1.

Figure 3 is a detached portion of the breech showing the means for raising and lowering the cannon for elevation purposes, and

Figure 4 is a view of the portion of the breech showing the means for fastening the breech block.

For the purpose of my invention I make the gun carriage 1 of any desired shape and mount thereon the axle 2 which carries the wheels 3 and the gun 4 and also the trigger mechanism.

The gun proper 4 is made with projecting lugs 5 having a space 6 between them which also extends to the breech 7 the rear end of which is open. These lugs have holes in them for mounting the gun 4 upon the axle 2, and between the lugs is pivotted also on the axle, the striker 8 which besides striking the cap or detonator also expels the missile.

A block or appliance 9 is provided for insertion into the breech 7 and such block 9 is made with a part 10 of a shape corresponding approximately to the shape of the upper part 11 of striker, and capable of retaining a cap or detonator preferably by an under cut in a portion thereof, so that on the insertion into the gun barrel of a missile and the block 9 having a cap or detonator affixed, the striker will at one operation by actuation on the trigger 12 explode the detonator and eject the missile, the block 9 being retained in position in the breech for firing by any means or by its own grip, but preferably by a catch 13 as at Figure 4.

The striker is acted upon by a spring 14, preferably of the flat kind and secured to the gun carriage 1 for holding it in the cocked position and for forcing it home to strike the detonator and eject the missile, and such striker has pivotted to it at 15 the trigger 12 this being also pivotted on the axle 2 so that on the actuation of the trigger 12 the striker 8 is moved over to cock same and on a pull on the trigger in the reverse direction the striker is released and forced home by the spring 14.

On the carriage 1 I arrange a screwed rod 16 for carrying a nut 17 into a groove on which rides a projecting stud 18 of the gun 4, so that by action on the nut 17 the gun 4 can be elevated or lowered to suit the firing.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. The improvements in and connected with toy cannons and guns whereby the gun, gun carriage and striking mechanism are all pivotted on the axle carrying the wheels substantially as and in the manner set forth.

2. In toy cannons or guns providing the gun proper with lugs, having an opening between them and extending to an open end of the breech, so that the striking mechanism can operate in said opening for exploding a fulminate and ejecting a missile substantially as set forth.

3. In toy cannons or guns constructing a breech block with means for receiving a cap or detonator and capable of being inserted in the breech end of a gun,

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that the detonator can be fired at the same time as a missile is ejected substantially as set forth.

4. In toy cannons or guns the employment of a screw rod carrying a grooved nut for engaging a projection on the gun for elevating the muzzle end for
5 aiming purposes substantially as set forth.

Dated this 29th day of August 1901.

R. CORE GARDNER
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Agent for the said:—James Sidney Renvoize.

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[This Drawing is a reproduction of the Original on a reduced scale.]

