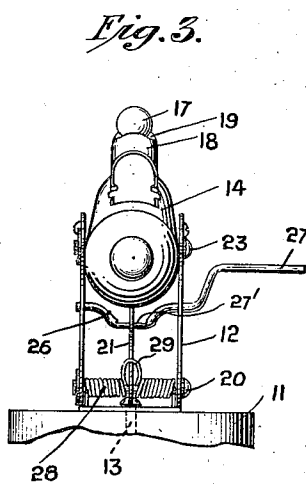
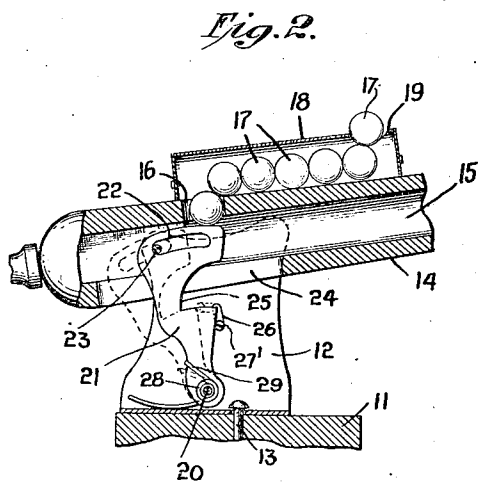
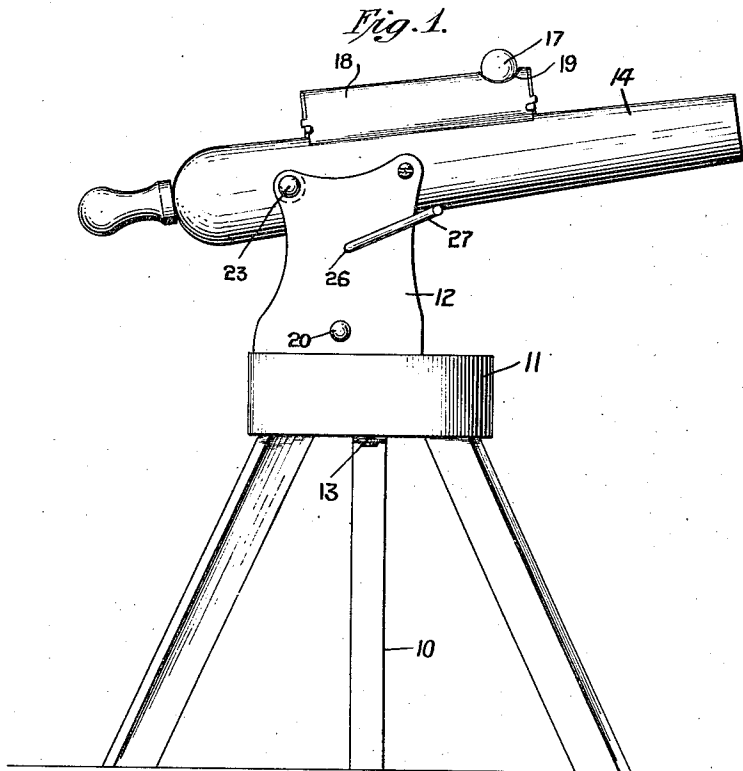


T. R. ARDEN.  
TOY CANNON.

APPLICATION FILED MAY 31, 1918.

1,276,308.

Patented Aug. 20, 1918.



WITNESS:

*C. Mitchell*

Thomas Raymond Arden  
INVENTOR

BY *Arden*

ATTORNEY

# UNITED STATES PATENT OFFICE.

THOMAS RAYMOND ARDEN, OF NEW YORK, N. Y., ASSIGNOR TO ARDEN MANUFACTURING CORPORATION, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

## TOY CANNON.

1,276,308.

Specification of Letters Patent. Patented Aug. 20, 1918.

Application filed May 31, 1918. Serial No. 237,399.

*To all whom it may concern:*

Be it known that I, THOMAS RAYMOND ARDEN, a citizen of the United States of America, residing at New York city, in the county and State of New York, have invented certain new and useful Improvements in Toy Cannon, of which the following is a specification.

My invention relates to a toy cannon of the repeating type from which projectiles may be successively expelled by a crank operated hammer.

The object of the invention is to provide a simply constructed toy cannon, which may be readily operated by a child, without danger of injury.

The invention is illustratively exemplified in the accompanying drawing, wherein—

Figure 1 is a side elevational view;

Fig. 2 is a substantially vertical sectional view through the barrel at the rear thereof; and

Fig. 3 is a rear elevational view.

Referring to the drawing, 10 denotes a tripod upon the table 11 of which a substantially yoke shaped frame 12 is swiveled by means of the stud 13.

Fixedly supported near the upper ends of the vertical arms of the yoke 12, preferably in an inclined position, is a barrel 14 provided with the bore 15. The breech of the barrel has an aperture 16 through which projectiles, in the drawing shown as balls 17, may pass from the magazine 18 secured to the top of the barrel 14 over the aperture 16. Near its front end the magazine is provided with an admission opening 19 for the projectiles 17.

Traversing the vertical arms of the yoke 12 near their lower ends is a stud shaft 20 upon which is pivotally mounted a trigger or hammer denoted generally by the numeral 21. The head of the trigger or hammer 21 is provided with an arcuate slot 22 through which passes a pin 23, passing through the barrel 14, thereby limiting the forward and backward movement of the hammer head in the bore 15 of the barrel.

The lower portion of the barrel is provided with a slot 24 through which the hammer projects up into the barrel.

Intermediate its ends the hammer is provided with a notch or cut-out portion 25 and bearing in the vertical arms of the yoke 12 intermediate their ends is a crank shaft 26 having an operating handle 27 carried thereby, preferably as an integral part thereof. The crank shaft is provided with a middle flat portion 27 so as to prevent the hammer from being thrown back upon reverse rotation of the shaft 26.

Encircling the stud shaft 20 is a coiled spring 28 having a loop 29 engaging the rear edge of the hammer 21 and normally forcing the same toward the front of the cannon.

The operation of the device is as follows:—

A suitable number of projectiles 17 are inserted through the opening 19 into the magazine 18. Thereupon the handle 27 is rotated from left to right and at each such rotation the hammer 21 will be forced rearwardly against the tension of the spring and as the crank shaft leaves the hammer the latter will be urged sharply forward by the spring causing the expulsion of one of the projectiles 17 which has dropped into the bore 15 in front of the hammer head. The reciprocating motion of the hammer is limited by the ends of the slots 22 striking the pin 23. The movement of the hammer by reverse rotation of the crank shaft is prevented because in such reverse rotation the flat portion 27 of the crank shaft will strike the horizontal portion of the notch 25 thereby causing an interlock of these parts.

It will be noted that the device is an extremely simple one and that mere rotation of the crank 27 is necessary for the repeated operation of the cannon.

What I claim is:—

A toy cannon comprising a bored barrel having a slot therein, a pin traversing said barrel, a pivotally mounted hammer having a head projecting through the slot into the barrel and an arcuate slot in the hammer head through which latter slot said pin pro-

jects, there being a notch in said hammer intermediate its ends, a spring tending to normally urge said hammer toward the forward end of the cannon, and a crank shaft  
5 having a portion engageable with said notch for moving the hammer in the opposite direction against the action of the spring.

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

THOMAS RAYMOND ARDEN.

Witnesses:

OTTO MUNK,  
CLARICE FRANCK.