

No. 716,433.

Patented Dec. 23, 1902.

W. R. KIZER.  
MARBLE SHOOTER.

(Application filed Apr. 17, 1902.)

(No Model.)

Fig. 1.

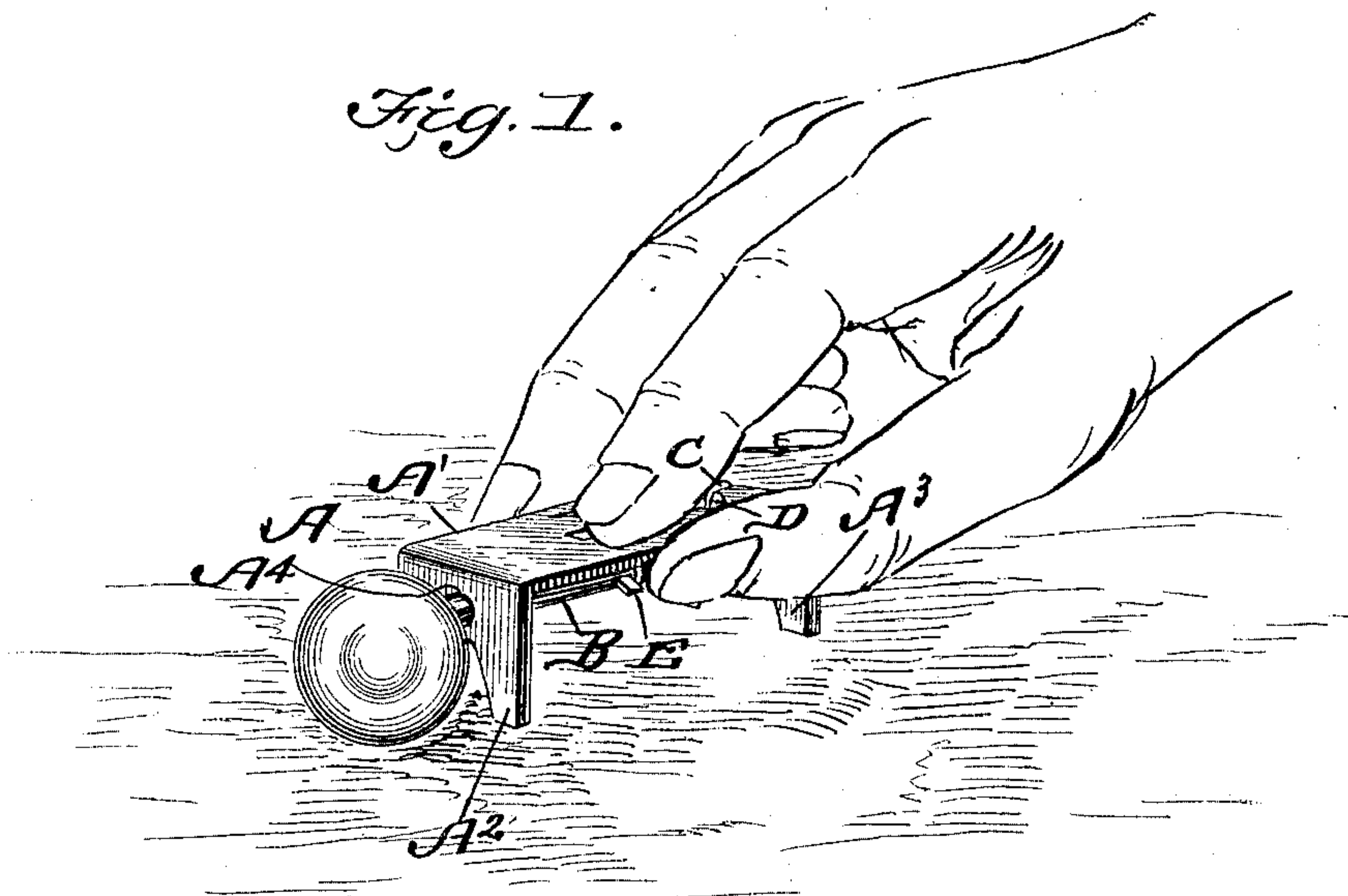


Fig. 2.

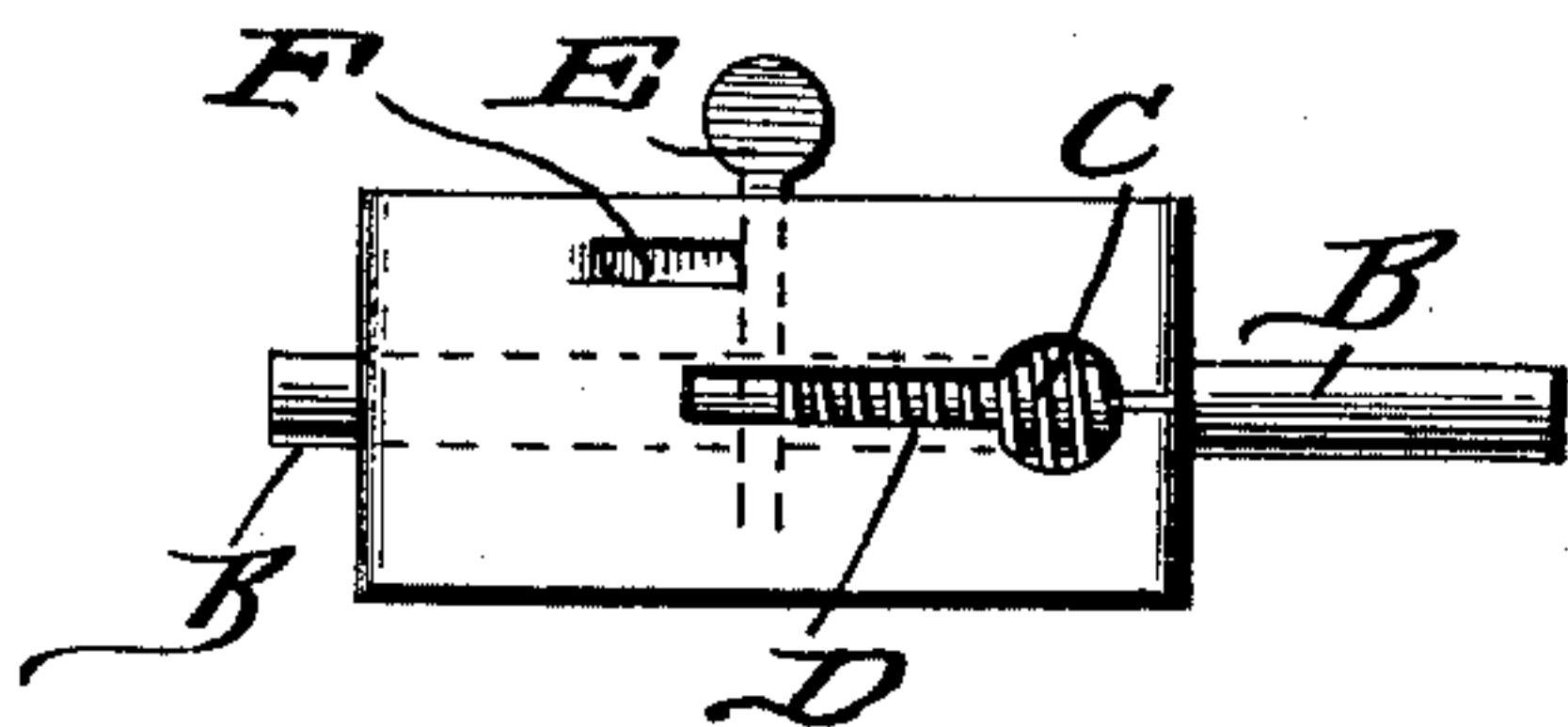


Fig. 3.

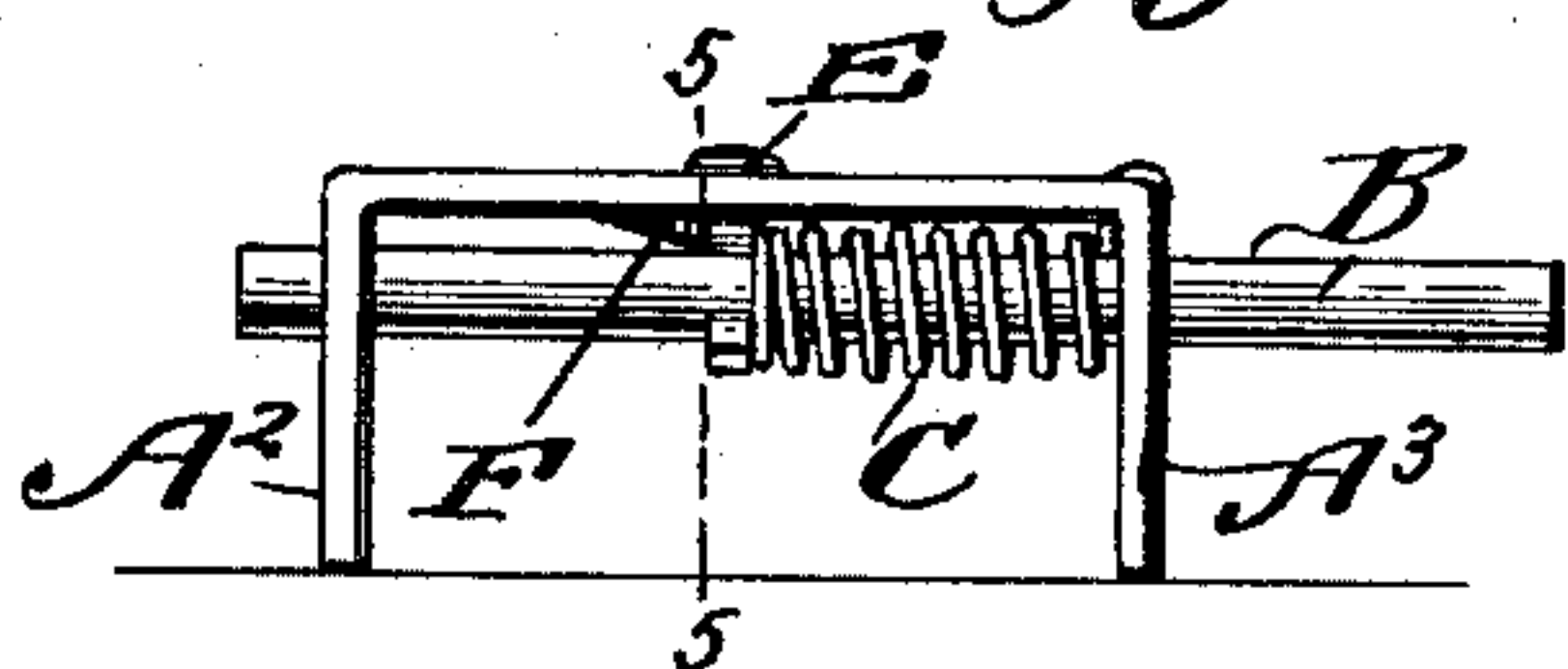


Fig. 4.

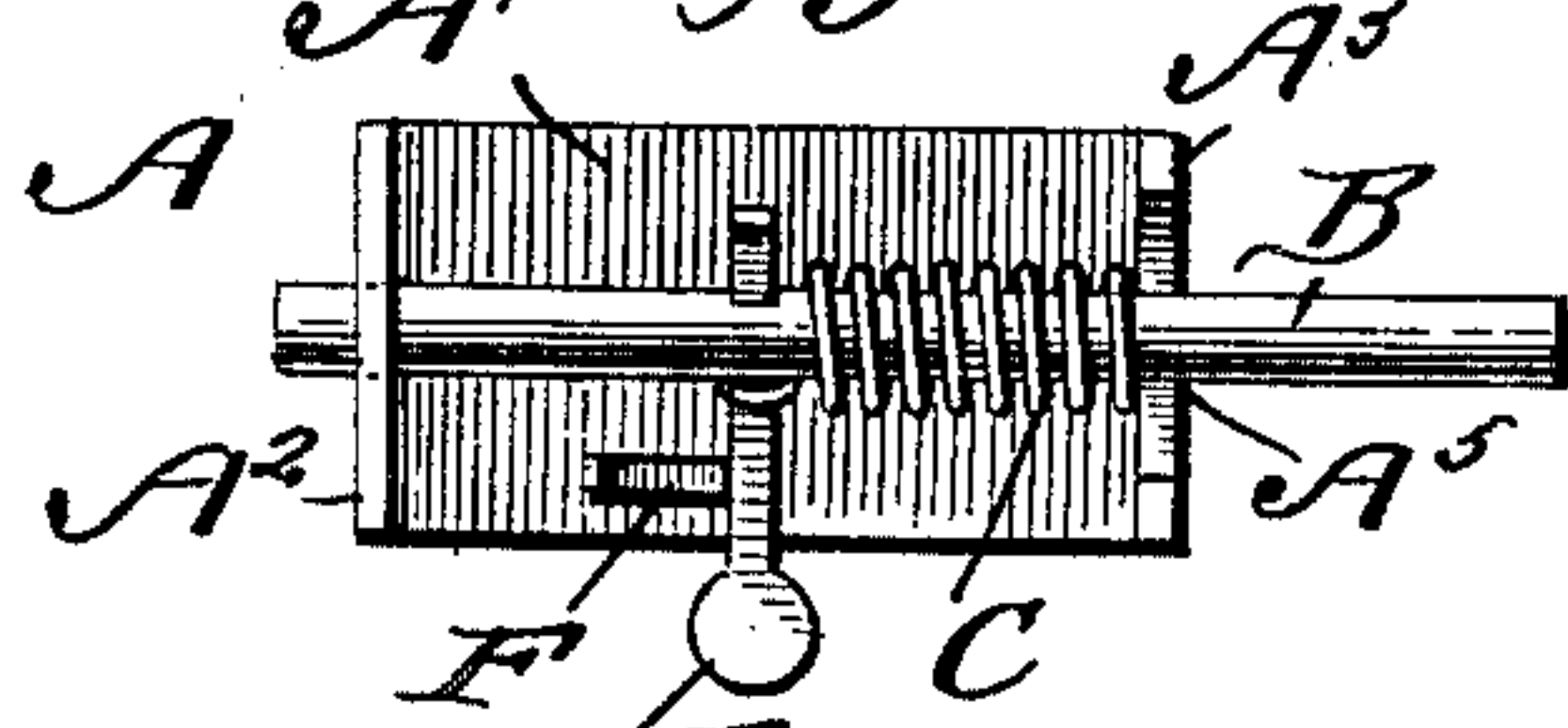


Fig. 5.



Fig. 7.

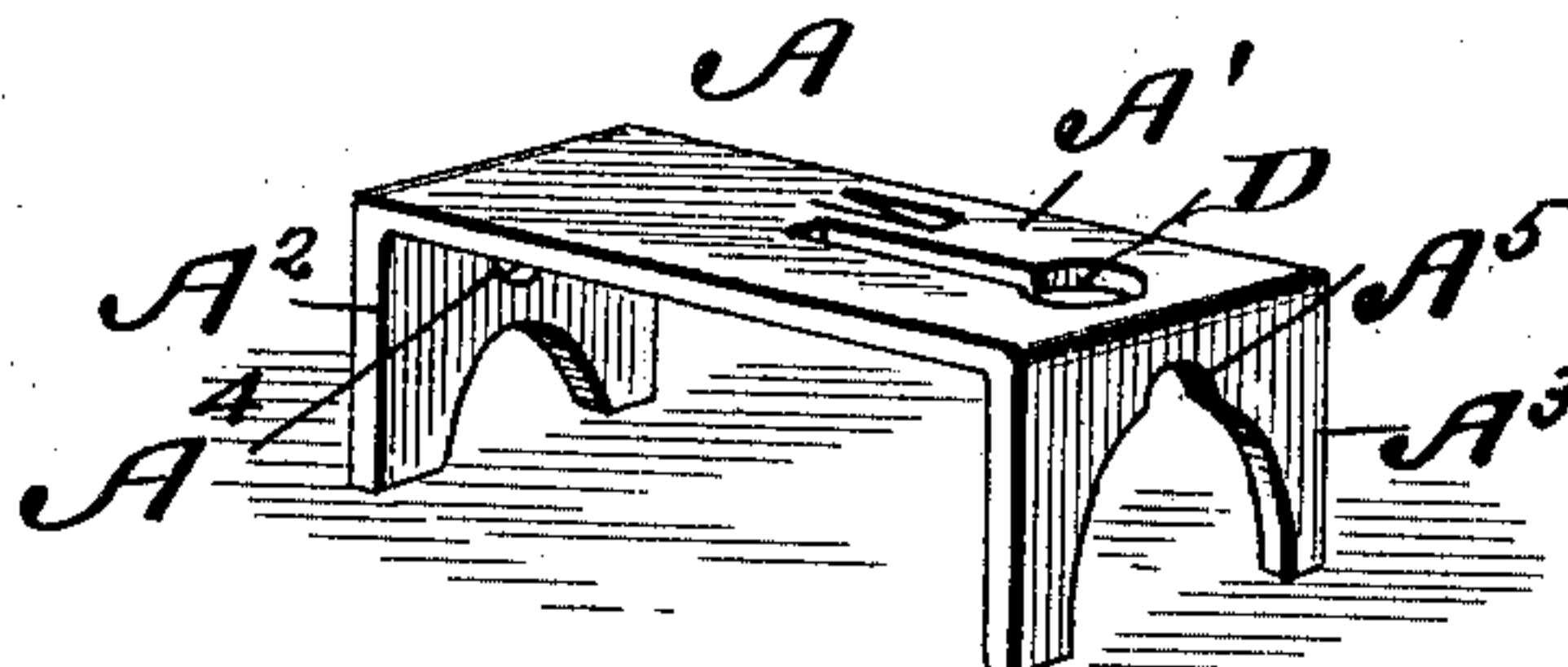


Fig. 8.



Fig. 10.





# UNITED STATES PATENT OFFICE.

WILLIAM R. KIZER, OF DECATUR, ILLINOIS.

## MARBLE-SHOOTER.

SPECIFICATION forming part of Letters Patent No. 716,433, dated December 23, 1902.

Application filed April 17, 1902. Serial No. 103,326. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM R. KIZER, a citizen of the United States, residing at Decatur, in the county of Macon and State of Illinois, have invented a new and useful Marble-Shooter, of which the following is a specification.

This invention is an improvement in toys, relating particularly to a marble-shooter; and the object thereof is to provide a device by which a marble may be accurately and forcibly projected in any given direction.

Another object of my invention is to take the place of the fingers and cue on game-boards where blocks or marbles are used.

Another object of my invention is to provide a device that is so constructed that the projecting-rod may be easily manipulated without in the least affecting the body of the device or changing its position or angle, and thus insuring a true shot after the device has been first righted.

With these various objects in view my invention comprises a stand or bracket that is stamped out of a single piece of metal and provided with guides, in which is held a spring-actuated pusher-rod or projector that is controlled by a trigger and by which the rod is automatically locked against forward movement by the same spring that is employed for projecting the rod. The said trigger is provided from the body portion of the stand, so that the cost of the device may be reduced to the smallest amount possible.

With these objects in view my invention also comprises certain details of construction and novelties of combination and arrangement, as will be fully set forth in the following specification, and pointed out in the claims, reference being had to the drawings, in which—

Figure 1 is a perspective view illustrating the general operation of my improved toy. Fig. 2 is a plan view of the toy, the projector rod or bar being shown held in a locked position. Fig. 3 is a side elevation of the same. Fig. 4 is an inverted plan. Fig. 5 is a detail section taken about on the line 5 5 of Fig. 3. Fig. 6 is an end view of the rear end of the frame. Fig. 7 is a detail perspective view of the frame or stand. Fig. 8 is a detail view of the projector bar or rod. Fig. 9 is a detail

view of the trigger. Fig. 10 is a detail sectional view illustrating the catch for locking the trigger against the tension of the spring; and Fig. 11 is a detail view of the blank from which the stand is made, the said blank being shown stamped and cut ready for bending.

In carrying out my invention I employ a stand or bracket A, that is preferably formed or stamped from a single piece of sheet metal. The flat horizontal body portion A' of the stand terminates at its ends in depending legs A<sup>2</sup> and A<sup>3</sup>, the forward one of which, A<sup>2</sup>, is provided with an aperture A<sup>4</sup>, while the rear leg A<sup>3</sup> is bifurcated, providing a suitable bearing portion A<sup>5</sup>, in which and in the slot is designed to be held a projector rod or bar B, around which is held a torsional spring C, that has one end projecting through an aperture D in the body of the stand and secured upon the edge of the stand, as illustrated in Figs. 2 and 3. This spring has its forward end connected with the trigger E, that is carried by the rod B and is held against forward movement and against the tension of the spring by a suitable catch F, that is stamped downwardly from the body portion of the stand, as shown in the drawings, and in practice I prefer to fasten the forward end of the spring under the said trigger and carry the end up over and around the bar, so that in drawing the bar backward to lock it against the tension of the spring the latter will automatically twist the bar as the tension is increased, and thus causing the trigger to slip over the catch and be retained thereby until the free end is forcibly disengaged. In practice I prefer to stamp the stand or bracket from a single sheet of metal, and in that case the trigger E would be stamped from the body portion, and the slot left in the body portion will be found desirable, for the reason that it lightens the toy and also provides an opening through which the rear end of the spring is inserted, and, as before stated, the catch is also stamped from the body of the stand, and thus enabling me to construct a stand or bracket at one operation of the die. The rod or projector B is provided with a suitable aperture B', through which the trigger is passed and by which the said trigger is firmly held to the bar.



In practice I may find it desirable to cast the stand or body, and in that case the rod and trigger may be also formed integral, or they may be made separately and secured in the manner illustrated in the drawings. The catch would also be cast upon the under side of the body portion of the stand in the form of a lug.

In operation the trigger is drawn backwardly against the tension of the spring and automatically locked against the catch F, when the device is placed upon the floor or ground, so that the forward end of the projector bar or rod will be against the marble that is to be projected, and after the proper angle is cited the trigger is released and the spring suddenly projecting the rod forwardly will cause the marble to be quickly projected in a perfectly straight line. It will thus be seen that the operation is exceedingly simple and that by reason of having the trigger self-locking the device may be quickly manipulated, and thus enabling one to shoot the toy very rapidly. It will also be seen that my device can be gotten up and placed upon the market at a very small cost.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a marble-shooter, the combination of a stand or bracket comprising the flat body portion and the depending legs, one of which having an aperture arranged therein and the other leg being bifurcated and forming a guide therein, a projector-rod operating through the said aperture and guide, a trig-

ger carried by the said rod or bar, and a torsional spring arranged upon the bar, and adapted for engagement with the said trigger and stand, and a catch projecting from the said body portion of the stand, substantially as and for the purpose set forth.

2. A marble-shooter comprising a stand or bracket which is preferably stamped of a single piece of metal to form the flat body portion, and the depending legs, one of which having an aperture arranged therein and the opposite leg having a guide, a spring-actuated projector-rod operating through the said aperture and guide, a trigger carried by the said rod or bar, the said trigger being preferably stamped from the body portion of the stand and a catch stamped from the body portion of the stand and projected in the path of the trigger, substantially as and for the purpose specified.

3. A stand for a marble-shooter, formed of a single piece of sheet metal and bent to provide the flat body portion, and the depending legs or end portions, one of which being provided with an aperture and the opposite leg provided with a guideway, a catch stamped from the body portion of the stand, the said body portion also having an aperture stamped therein, the material from which being designed for use as the trigger, substantially as described.

WILLIAM R. KIZER.

Witnesses:

C. S. HANKINS,  
R. A. WILSON.