Aug. 7, 1923. 1,463,894

J. S. JAFFE

MARBLE SHOOTER

Filed Oct. 16, 1922

Fig. 1.

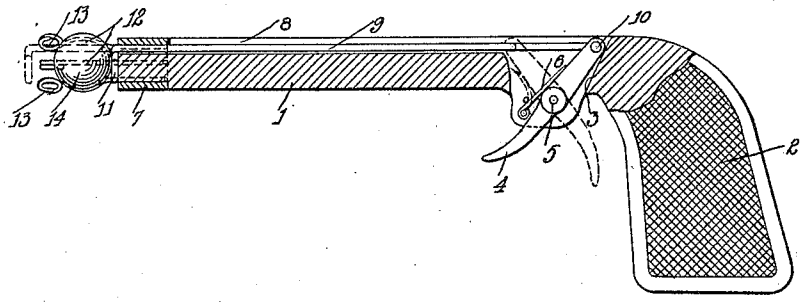


Fig 2

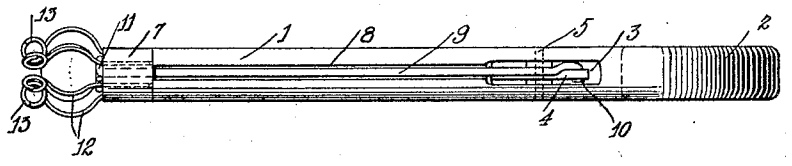
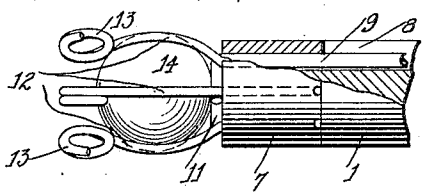


Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

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MARBLE SHOOTER.

Application filed October 16, 1922. Serial No. 594,825.

To all whom it may concern:

Be it known that I, JOSEPH S. JAFFE, a citizen of the United States, and a resident of New Haven, in the county of New Haven and State of Connecticut, have invented a new and Improved Marble Shooter, of which the following is a full, clear, and exact description.

This invention relates to improvements in marble shooters, an object of the invention being to provide a toy of this type which is shaped like a pistol and which is adapted to project a marble or other projectile with some force from the forward end of the shooter.

A further object is to provide a marble shooter wherein a projecting mechanism cooperates with a basket composed of a circular series of spring tongues to project a marble from the basket.

A still further object is to provide a marble shooter with an improved type of projecting mechanism, one which will be strong and durable in use and one which can be manufactured and sold at a relatively low cost.

With these and other objects in view, the invention consists in certain novel features of construction and combinations and arrangements of parts which will be more fully hereinafter described and pointed out in the claim.

In the accompanying drawings—

Figure 1 is a view in longitudinal section of my improved marble shooter, the handle being shown in elevation, the dotted lines illustrating the position of the projecting mechanism immediately after a marble has been projected from the toy;

Figure 2 is a top plan view; and

Figure 3 is an enlarged fragmentary view in side elevation of the forward end of the device with parts broken away.

The body portion of the toy comprises a barrel 1 and a handle 2 integral with the barrel. The barrel is slotted adjacent the handle and, as shown at 3, to accommodate a trigger 4 which is pivotally mounted within the slot on a pin 5 extending across the same. The trigger 4 is held in normal position by means of a spring 6 mounted in the slot 3 and exerting pressure on the trigger.

A collar 7 is secured around the forward end of the barrel 1, and the latter is provided in its upper face with a longitudinal groove 8. This groove 8 extends under the collar 7 and provides a guide for an ejector rod 9 which is positioned in the groove and under the collar. The ejector 9 is pivotally connected at one end to the trigger 4, as shown at 10, and a marble-engaging engagement 11 is located at the forward end of the ejector in front of the barrel. When a wire rib such as illustrated is used as an ejector, the engagement may be formed by bending the end of the wire to provide a transversely positioned ring, but it is obvious that any preferred type of engagement might be utilized.

A marble-receiving basket is formed on the forward end of the barrel and comprises a circular series of outwardly curved spring tongues 12 having their inner ends secured between the barrel 1 and the collar. Rings or coils 13 are formed on the outer ends of the spring tongues 12 and are radially positioned, and pressure must be exerted to force a marble 14 between the coils 13 into the basket against the force of the spring tongues 12.

The operation is as follows: A marble 14 is positioned in the basket where it will be securely held by the spring tongues 12. The operator then grasps the handle 1 and moves the lower end of the trigger rearwardly with his finger. The ejector 9 is thus moved forwardly in the groove 8 with the engagement 11 engaging the marble 14 and forcing it forwardly, thus spreading the spring arms 12 apart. As soon as the bulge or greatest diameter of the marble passes the coils 13 the tongues 12 will spring inwardly and exert a cam action on the marble so that the coils 13 will project the marble from the basket with considerable force.

While I have referred to the projectile as a marble, it is obvious that any form of ball or sphere might be projected from the toy.

Although I have illustrated in the drawings a preferred form of my device, it will be readily seen that various slight changes and alterations might be made in the general form of the parts described without departing from my invention, and, hence, I do not limit myself to the precise details set forth but consider myself at liberty to make

such slight changes and alterations as fairly fall within the spirit and scope of the appended claim.

I claim:

A device of the character described including a barrel, a projectile holder carried by said barrel and including a plurality of resilient members combining to form a projectile receiving compartment and encircling the major portion of a projectile, said members forming at their free ends a constricted outlet for said compartment of less area than the diameter of said projectile, and an ejector operable to force the projectile outwardly through said opening to initially spread said resilient members which thereafter contract to complete the ejection of said projectile from said compartment.

JOSEPH SAMUEL JAFFE.