April 21, 1925. 1,535,029

W. W. MURCH

TOY

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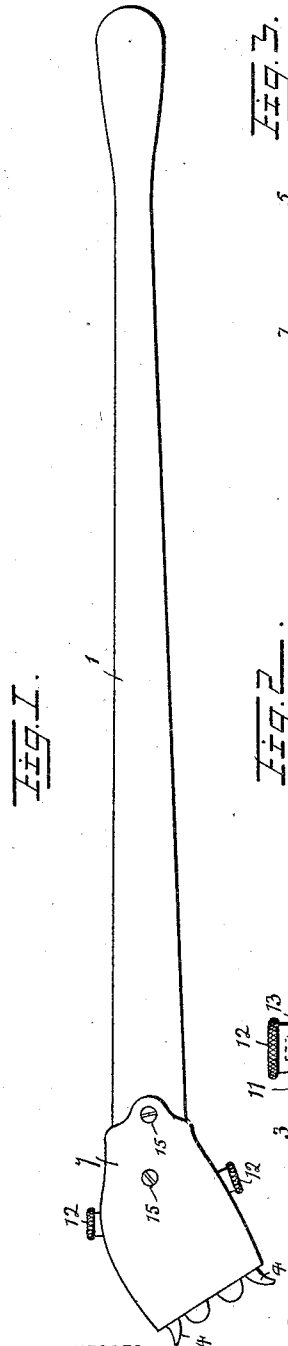


Fig. 1.

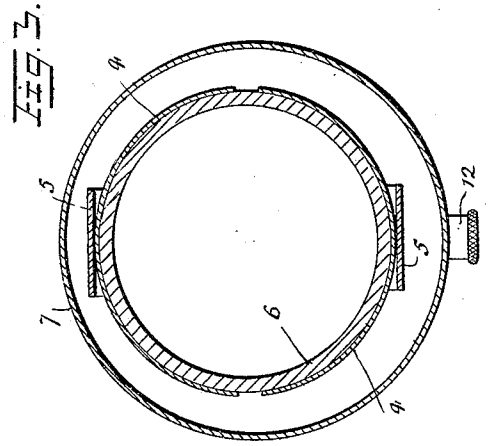


Fig. 3.

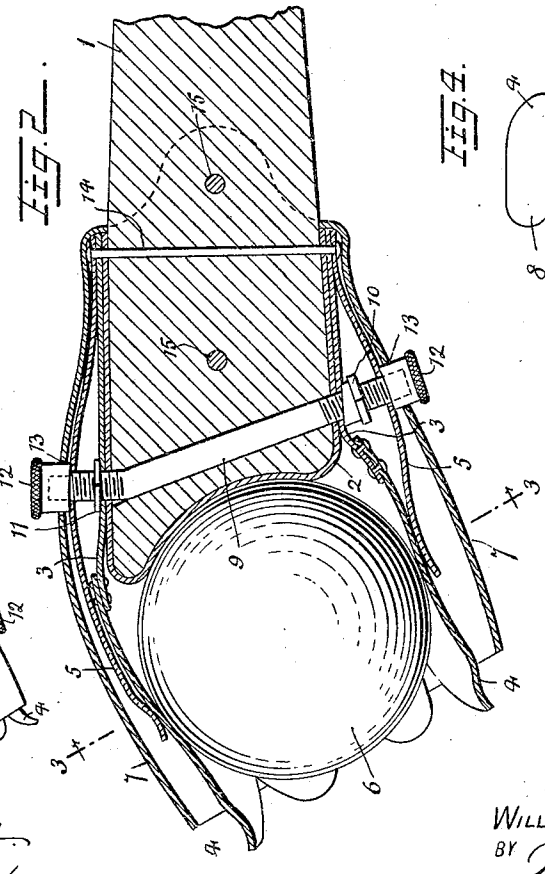


Fig. 2.

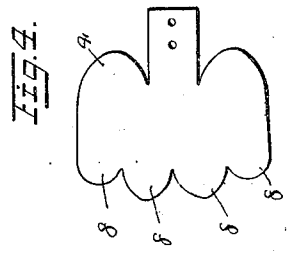


Fig. 4.

WITNESSES

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UNITED STATES PATENT OFFICE.

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TOY.

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To all whom it may concern:

Be it known that I, WILLIAM W. MURCH, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented new and Improved Toys, of which the following is a full, clear, and exact description.

This invention relates to toys and more particularly to an improved device for picking up, holding and throwing a ball.

An object of the invention is to provide a toy of this kind which is adapted to grip the ball with sufficient resiliency to hold it under normal conditions but which will release the ball when a throwing action is imparted thereto so that the ball can be projected with great force and accuracy.

A further object is to provide a toy consisting of a handle of any suitable length having a ball receiving socket at one end and at an angle thereto, the socket being so constructed as to resiliently engage and hold a ball but which will permit the release of the ball when a throwing action is imparted to the handle to allow the ball to be projected as may be desired.

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 claims.

In the accompanying drawings—

Figure 1 is a view in side elevation illustrating my improved toy;

Figure 2 is a view in longitudinal section through the socketed end of the toy showing a ball in position therein;

Figure 3 is a view in transverse section on the line 3—3 of Figure 2;

Figure 4 is a plan view of one of the ball-gripping jaws before the latter is bent.

1 represents a handle which may be of any suitable length and to which at one end a ferrule 2 is secured and provided with a pair of spring tongues 3, 3 projecting therefrom. A pair of holding wings 4, 4 is secured to the free ends of the spring tongues 3 and a pair of tension springs 5 bears against the leaves 4 giving them sufficient inward pressure to hold the ball 6. A casing 7 is located around the leaves and springs above described and encloses them with the exception of the forward ends of the leaves which are in the form of a plurality of tongues 8. The tongues project slightly beyond the forward end of the casing so as to provide an entrance grip to receive the ball when the latter is forced into the casing between the leaves.

It will be noted that the casing 7 with the parts enclosed therein is located at an angle of approximately 135° to the handle 1, and this is important in that it properly positions the ball so as to guide its discharge in flight.

The parts above described are assembled as follows: The ferrule 2 is inserted on the end of the handle 1, the spring tongues 3 which constitute strips of metal are located at opposite sides of the ferrule 2, a bolt 9 is projected through the registering openings in the tongues 3 and ferrule 2, and this bolt 9 is screw-threaded at both ends and receives nuts 10 and 11 which are tightly clamped against the strips or tongues 3.

The outer extremities of the respective ends of the bolts 9 receive nuts 12 which project through relatively large openings 13 in the casing 7 and at their inner ends are concaved or cupped so as to conform to the curvature of the springs 5 and bear against said springs and held by said connection against accidental removal. Furthermore, the free ends of the ferrule 2, strips 3, and springs 5 are secured by a rivet 14 which projects through the handle 1. The casing 7 is secured to the handle by means of a pair of screws 15 or other securing devices projected therethrough and into the handle.

Figure 4 illustrates on a reduced scale one of the leaves 4 in plan before it is bent into shape. These leaves are bent upon any number of longitudinal lines or given any desired transverse shape so that they will receive the ball 6 and hold the same with sufficient resilient or frictional resistance to prevent the accidental dropping of the ball.

When the handle 1 is swung in the arc of a circle to give a throwing motion to the ball great leverage and accuracy can be had, and as the forward motion or swing of the handle is stopped the ball 6 will fly out of its position between the leaves 4 and be directed with great accuracy and can be thrown at a great distance.

Furthermore, it will be noted that the device can also be used for picking up the ball as it is simply necessary to position the leaves 4 over the ball and then the handle

downward when the ball will find its position between the leaves ready for another operation of throwing the same.

It is of course to be understood that the invention is not limited to the precise construction set forth but I believe that I have illustrated a preferred embodiment which will most efficiently perform the functions intended and hence various slight changes 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 claims.

I claim:

1. A toy of the character described, comprising a handle, a pair of springs fixed to the handle, a pair of ball-holding leaves connected to the springs, and other springs secured to the handle and exerting inward pressure against the leaves.

2. A toy of the character described, comprising a handle, a pair of springs fixed to the handle, a pair of ball-holding leaves connected to the springs, other springs secured to the handle and exerting inward pressure against the leaves, a casing surrounding the leaves and springs, a bolt projected through the handle and through the leaves and springs, nuts on the bolts pressing the first-mentioned springs toward the handle, and cap nuts on the outer ends of the bolts projected through the casing and engaging the last-mentioned springs.

3. A toy of the character described, comprising a handle, a pair of inwardly spring-pressed leaves secured to the handle and located at an angle to the handle, said leaves having a plurality of tongues at their outer ends flared outwardly constituting an entrance for a ball.

4. A toy of the character described, comprising a handle, a socket member on the handle, spring tongues against the socket member, ball engaging leaves connected to the tongues, springs secured to the socket member and exerting inward pressure against the leaves, a casing located around said springs and leaves and secured to the handle, a bolt projected through said handle, socket, spring tongues, springs and casing, and a plurality of nuts on both ends of said bolt securing the parts in their proper relative positions.

WILLIAM W. MURCH.