

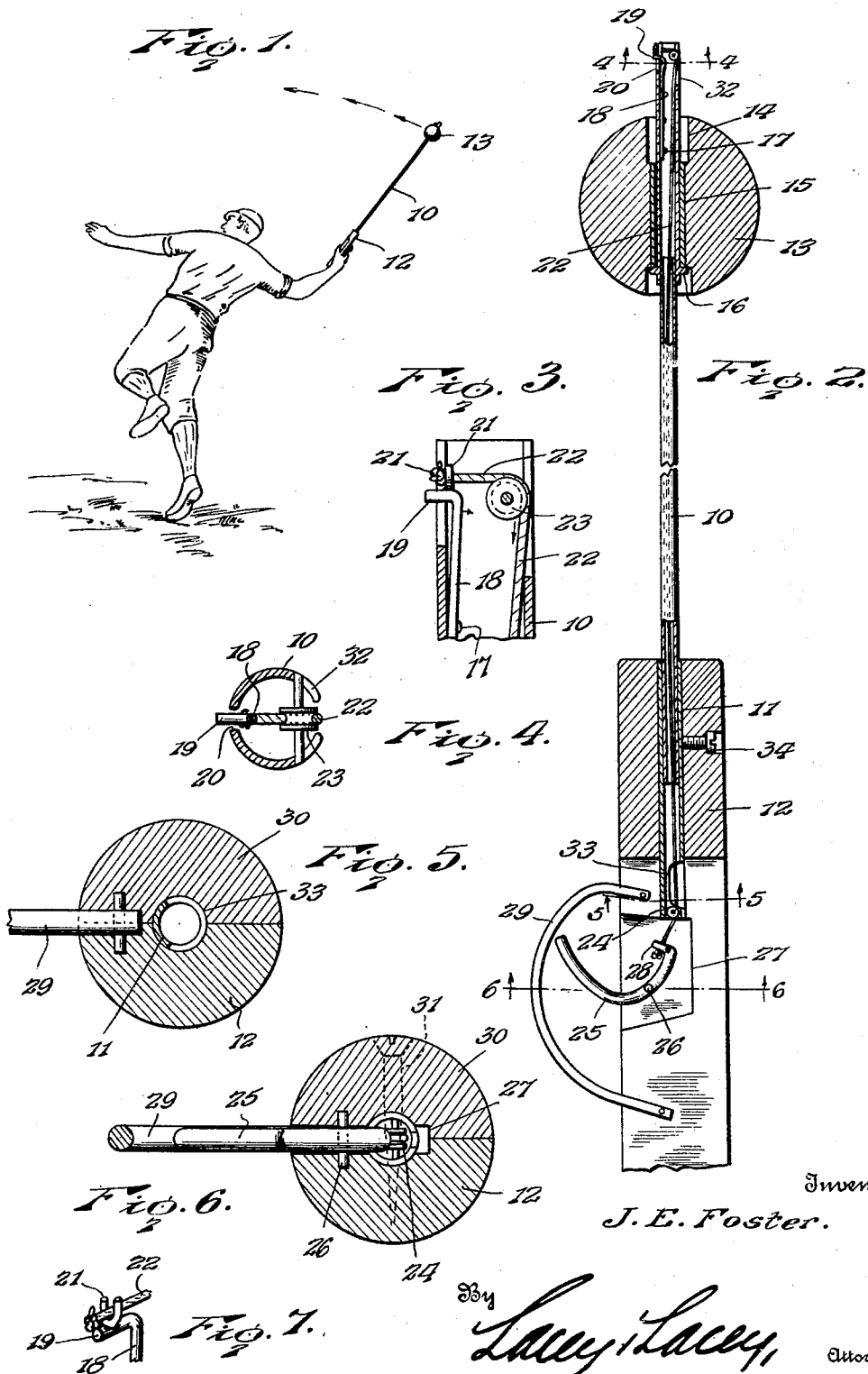
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PROJECTOR

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UNITED STATES PATENT OFFICE

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PROJECTOR

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This invention relates to games and has for an object to provide a casting ball which may be hurled at a target one hundred yards, more or less, away for amusement, or to improve one's skill in casting fish lines for distance, and for other purposes.

A further object is to provide a game device including a grip, a slender rod, and a ball yieldably held on the end of the rod by means of a shoulder and a pivoted catch, which latter may be tripped by a trigger on the grip when the device has been swung through a sufficient arc of movement to hurl the ball with great force centrifugally from the device.

A further object is to provide a game device of this type which will be light, strong and durable, manufactured inexpensively, and will embody a few simple parts which will not easily get out of order.

With the above and other objects in view the invention consists in certain novel details of construction and combinations of parts hereinafter fully described and claimed it being understood that various modifications may be resorted to within the scope of the appended claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawing forming part of this specification,

Figure 1 is a perspective view of the device in use,

Figure 2 is a longitudinal section through the device,

Figure 3 is a detail section showing the pivoted catch,

Figure 4 is a cross section taken on the line 4-4 of Figure 2,

Figure 5 is a cross section taken on the line 5-5 of Figure 2,

Figure 6 is a cross section taken on the line 6-6 of Figure 2, and

Figure 7 is a detail perspective view of the end of the catch.

Referring now to the drawing in which like characters of reference designate similar parts in the various views, the device is shown to comprise a tubular slender rod 10 of approximately two feet, more or less, in

length, the base of the rod being enlarged by means of a sleeve 11 to attach the rod to a handle or grip 12.

A hard rubber ball 13, such, for instance, as a golf ball although a ball of other type may be used, is slidably mounted on the tip end of the rod and for this purpose the ball is bored out axially, as shown at 14, and provided with a sleeve 15 which slidably fits on the rod 10 and terminates short of the ends of the axial opening 14. A stop shoulder 16 is formed on the rod to engage one end of the sleeve 15 and pivoted within the bore of the rod, as shown at 17, is a spring leaf catch 18, the tip 19 of which is bent at an angle to the catch and projects through an opening 20 formed in the side of the rod. The tip of the catch is adapted to engage the opposite end of the sleeve 15 and coact with the shoulder 16 in retaining the ball on the end of the rod.

For releasing the ball from the rod a fork eye 21, best shown in Figure 3, is secured to the tip 19 of the catch and forms means for attaching the outer end of a cord 22 to the catch. The cord is trained over a pulley 23 mounted in the bore of the rod in rear of the catch and extends longitudinally through the rod and into the handle or grip 12 and is trained over a pulley 24 at the butt end of the sleeve 11 so that the cord can move freely through the rod.

An arcuate trigger 25 is pivoted, as shown at 26, in a recess 27 formed in the grip and is provided with an eye 28 which secures the adjacent end of the cord 22. Preferably a trigger guard 29 is secured to the grip and houses the trigger.

As best shown in Figures 5 and 6, the lower end of the grip is divided axially to provide a removable section 30 which permits of mounting of the trigger and trigger guard. A screw 31 attaches the removable section to the grip, as shown in Figure 6.

To permit the cord being easily threaded over the guide pulleys 23 and 24 the tip of the rod is cut away, as shown at 32, and also the bottom of the rod is cut away, as shown at 33. Preferably the rod 10 is removably attached to the grip by means of a set screw

34 passing through the side of the grip and bearing against the sleeve 11.

In operation the grip may be tightly grasped with the forefinger around the trigger 25. The device is then swiftly snapped through a forward arc of movement and at a predetermined instant in such arc of movement the trigger is pressed to pull the spring catch 18 back into the tubular rod and permit the ball flying off the rod at a tangent with great speed. The ball may be aimed at a target formed of canvas placed one hundred or one hundred fifty yards away, or may be even tossed at another player who may be presumed to catch the ball much as a base ball is caught and then return it with his casting device. Obviously fishermen may use the device to improve their skill in casting for distance. Other uses will be apparent.

From the above description it is thought that the construction and operation of my invention will be understood without further explanation.

What is claimed is:

1. A game device including a rod, a grip on one end thereof, a ball slidably mounted on the opposite end thereof, a shoulder on the rod limiting sliding movement of the ball in one direction, a spring catch at the tip of the rod limiting movement of the ball on the rod in the opposite direction, a trigger carried by the grip, and a cord connected to the spring catch and to the trigger for withdrawing the catch from the path of the ball when the trigger is pulled.

2. A game device including a tubular rod, a grip secured to one end of the rod, a ball provided with a central opening, a sleeve in said opening terminating short of the ends of the opening and slidably fitting said rod, a stop shoulder on said rod adapted to engage one end of said sleeve, a spring catch in the bore of said rod having the tip projecting at an angle from the side of the rod to engage the other end of said sleeve and coast with said shoulder in retaining the ball on the rod, a trigger pivoted on said grip, guide pulleys in the bore of said rod, and a cable trained over said pulleys and terminally attached to said catch and to said trigger for withdrawing the catch from the path of the ball when the trigger is pulled.

3. A game device including a tubular rod, a ball slidably mounted on the tip end thereof, means on the rod for releasably holding the ball on the rod, a grip on the opposite end of the rod having a removable section, a recess formed in said grip, a trigger in said recess pivoted to the grip and to the removable section, a trigger guard over said trigger terminally secured to said grip, a cable trained through the bore of said tubular rod and connected at one end to said trigger and at the opposite end to said means for releasing

said means to free the ball from the rod when the trigger is pulled, and a set screw removably securing said rod to said grip.

In testimony whereof I affix my signature.

JOHN E. FOSTER. [L. s.]

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