

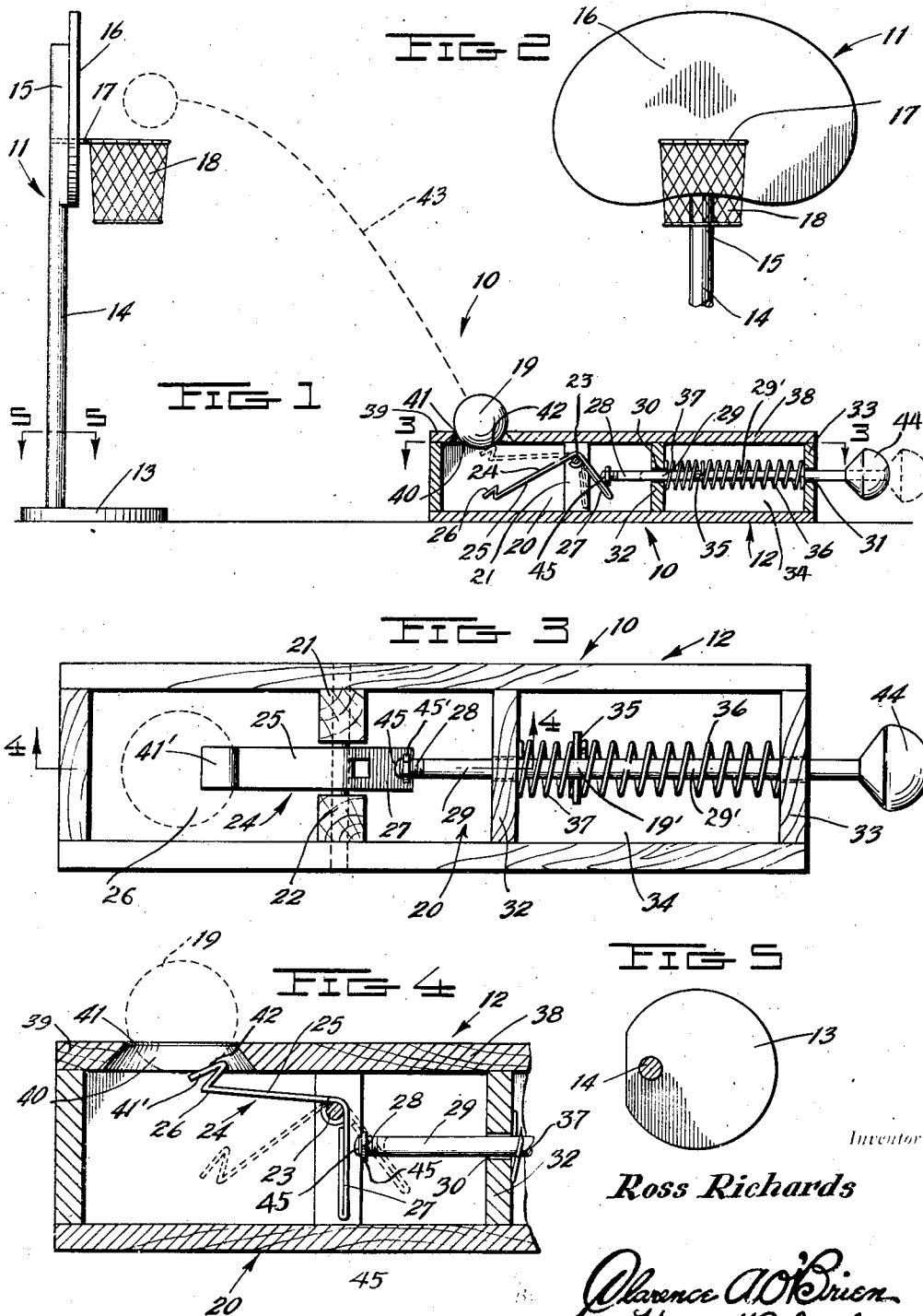
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R. RICHARDS

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BALL PROJECTOR

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Inventor

Ross Richards

Clarence A. O'Brien
and Harvey E. Jacobson
Attorneys

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BALL PROJECTOR

Ross Richards, Newman, III,

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5 Claims. (Cl. 124-16)

1.

The invention as described herein, and illustrated in the accompanying drawings, consists of a game, an object of which is to provide a toy simulating the game of basketball.

Another object of the invention is to provide a lever thrown ball and a goal therefor.

Another object of the invention is to provide a spring actuated means for throwing a ball at an angle.

A primary object of the invention is the provision of means whereby an amusing and interesting game of chance and a game of skill may be played with the same device.

Other features and advantages will become more readily apparent from the following description and the accompanying illustrative drawings in which:

Figure 1 is a sectional elevational view of the invention.

Figure 2 is a detail elevational view of one member thereof.

Figure 3 is an enlarged top plan view of a ball actuating device, the top being removed.

Figure 4 is a broken away vertical sectional view of the same taken on line 4-4 of Figure 3, and

Figure 5 is a sectional view taken on line 5-5 of Figure 1.

While one embodiment of the invention is illustrated in the above referred to drawings, it is to be understood that they are merely for the purpose of illustration and that various changes in construction may be resorted to in the course of manufacture in order that the invention may be utilized to the best advantage according to circumstances which may arise, without in any way departing from the spirit and intention of the device, which is to be limited only in accordance with the appended claims. And while there is stated the primary field of utility of the invention it remains obvious that it may be employed in any other capacity wherein it may be found applicable.

In the accompanying drawings, and in the following specification, the same reference characters are used to designate the same parts and elements throughout and in which 10 refers to the invention in its entirety and 11 indicates a goal and 12 a ball throwing member. The goal consists of a base 13 to which is fixed an upright post 14 to the upper end 15 of which is fixed a rebound board 16 shaped preferably in the form of a lima bean and projecting from which is a ring 17 carrying a bottomless basket or tubular net 18 through which balls 19 may fall.

2.

The ball throwing device 12 consists of an elongated box 20, within which is fixed a pair of spaced apart posts 21 and 22 forming bearings for a shaft 23, which forms a fulcrum for and carries pivotally mounted thereon a lever member 24, the arm 25 of which is provided with a substantially Z-shaped end 26. The arm 27 of the lever is turned at substantially right angles to the arm 25. The said arm 25 is of a weight and is so pivoted to overbalance arm 27 whereby the latter is normally held in raised position as indicated in Figure 1, the arm 25 reversely hanging down as shown in Figure 1.

The normal position of arm 27 is in the path of the end 28 of a plunger rod 29 which rod is slidably mounted in the aligning bores 30 and 31 in the partition wall 32 and end wall 33 of said box 20. The portion 29' of the rod 29 normally seats in the compartment 34 of the box 20. Projecting through portion 19' of the rod 29 is a pin 35, between which and wall 33 is coiled around the rod a driving spring 36 and also coiled upon the inner portion of the rod is a cushion spring 37 which seats between said pin and the wall 32.

The box 20 is provided with a fixed lid 38 the end 39 of which is provided with a flaring aperture 40. The outer feather edge 41' forms a seat for the ball 19 which seat is so located over the end 26 of lever arm 25 that the upper incline 41' of the Z-head 26 will, when thrown up, strike the inner side 42 of the ball 19 and drive it in an arc 43 (indicated in dotted lines Figure 1) toward the basket 18.

In operation, the knob 44 of plunger 29 is pulled out against tension of spring 36 and then let go, the spring pulling it back with force and causing the cushion 45 on the end of the plunger to strike arm 27 and drive up arm 25 and make member 41' strike the ball 19 with force driving the same at basket 18; whether the ball reaches the goal, of course, must depend upon either chance or the skill of the operator. The ball 19 is preferably made of hollow plastic or treated fabric, felt or the like, or it may be made of rubber depending upon the price at which the device is to be sold. In playing the game, especially if one of skill, each player may move the box 20 at any distance from the goal basket or at any angle relative thereto he desires. 45' is a nut to limit movement of the plunger.

From the foregoing specification it will become apparent that the invention disclosed will adequately accomplish the functions for which it has been designed and in an economical manner and that its simplicity, accuracy and ease of opera-

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tion are such as to provide a relatively inexpensive device considering what it will accomplish and that it will find an important place in the art to which it appertains when once placed on the market.

It is thought that persons skilled in the art to which the invention relates will be able to obtain a clear understanding of the invention after considering the description in connection with the drawings. Therefore, a more lengthy description is regarded as unnecessary.

Changes in shape, size and rearrangement of details and parts such as come within the purview of the invention claimed may be resorted to, in actual practice, if desired.

Having now described the invention that which is claimed to be new and desired to be procured by Letters Patent is:

1. A game apparatus comprising a box including a top, a projectile recess in the top, a shaft carried by said box, a bell-crank lever pivotally mounted on said shaft and having one end positioned for movement toward said top and said recess, and a spring controlled plunger slidably mounted in said box for striking said lever to project a projectile seated in said projectile recess, said top and said recess being parallel to said plunger.

2. A game apparatus comprising a box including a top, a projectile recess in the top, a shaft carried by said box, a bell-crank lever of resilient material pivoted on said shaft, a spring controlled plunger slidably mounted in said box for striking one leg of said lever, the opposite leg of said lever being adapted to swing toward said top and said recess to project a projectile seated in said recess upon sliding movement of said plunger in one direction, and means for guiding the pivotal movement of said lever.

3. The combination of claim 2 wherein a hook member is punched inwardly from one leg of said lever to pivotally engage said shaft.

4. A game apparatus comprising a box including a top, a projectile recess in the top, a shaft carried by said box, a bell-crank lever, a hook member punched inwardly from one leg of said

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lever pivotally engaging said shaft, one leg of said lever being folded upwardly upon itself to provide an increased thickness, a spring controlled plunger slidably mounted in said box for striking the double thickness leg of said lever, and a V-shaped portion carried by the terminal of the opposite leg of said lever and movable in an arc toward said recess for projecting a projectile from said recess upon actuation of said plunger in one direction.

5. A game apparatus comprising a substantially rectangular box including a top, a projectile recess in the top, said recess being tapered to provide a reduced upper portion a pair of spaced parallel posts carried by said box, a shaft carried by said posts, a bell-crank lever pivotally mounted on said shaft between said posts, one leg of said lever being of a greater weight than the other leg of said lever to normally hold the latter leg in a raised position, a spring controlled plunger slidably mounted in said box for striking said latter leg upon movement of said plunger in one direction, and a contact lip carried by the terminal of said first mentioned leg engageable with a projectile seated in the upper portion of said recess.

ROSS RICHARDS.

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