Aug. 15, 1950 D. LEVI 2,518,913

TOY PROJECTOR

Filed Jan. 21, 1949

Fig. 1.

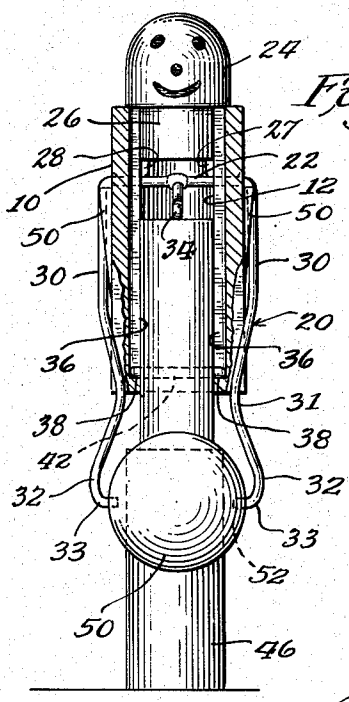


Fig. 4.

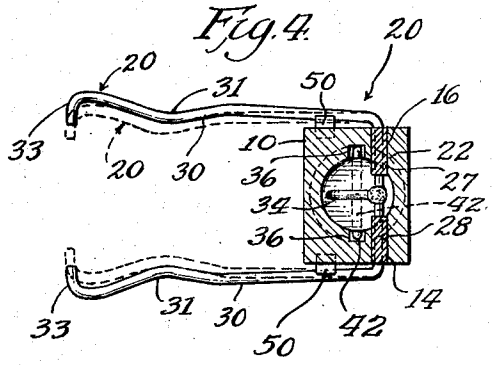


Fig. 2.

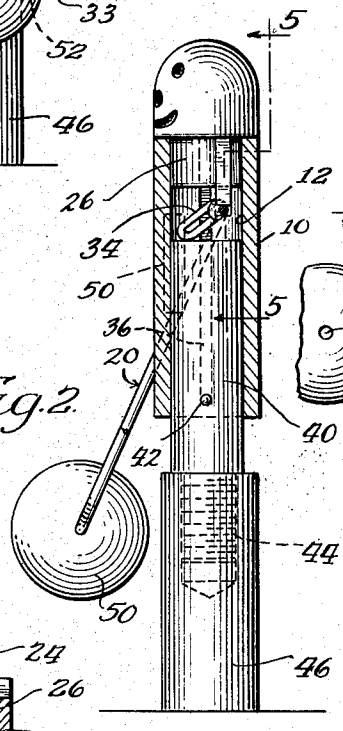


Fig. 3.

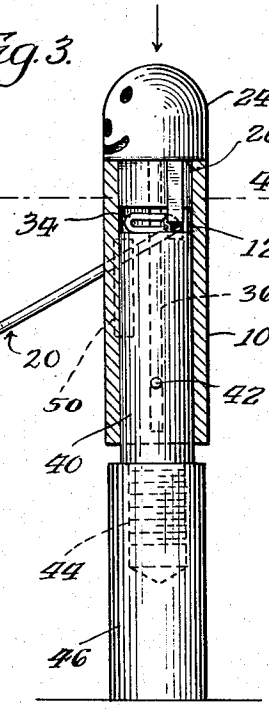
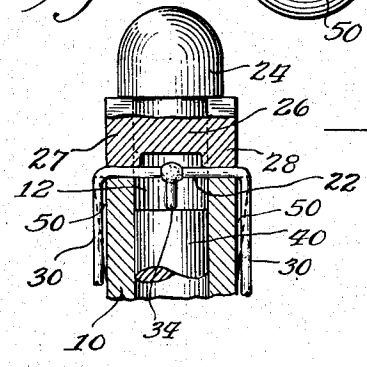


Fig. 5.



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TOY PROJECTOR

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Application January 21, 1949, Serial No. 71,850

4 Claims. (Cl. 124—6)

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This invention relates to improvements in a game apparatus, and more particularly to a device for use as a means for carrying and projecting a ball or the like.

One of the objects of this invention is to provide a game device for use on a game board playing field which will hold a ball or other projectile and will when actuated propel it to a target or basket.

This device has particular application to a miniature type of basketball game played on a game board or other surface and where the device of the present invention may be moved about by the hand of the player on the playing surface and positioned on the surface and actuated to project and direct the ball to a basket, in much the same manner that a player shoots for the basket. Another object therefore is to provide a device for use with a basketball type of game which simulates the throwing of the ball by the player shooting for the basket and requires skill in its execution.

Other objects will become apparent as this description progresses.

In the drawings:

Fig. 1 is a view partly in cross section taken on the front of the device.

Fig. 2 is a side elevational view of the device partly in cross section, showing the position of the arms while supporting the ball.

Fig. 3 is a view similar to Fig. 2 but showing the position of the parts as the ball is projected.

Fig. 4 is a view taken on lines 4—4 of Fig. 3 with the arms expanded as when projecting the ball, and

Fig. 5 is a cross section taken on line 5—5 of Fig. 2.

The device comprises a body portion 10, having a cylindrical shaped vertical bore 12 extending through the length of the body. On the opposite sides of the body is a pair of aligned slots 14 and 16 extending from the top of the body downwardly.

A substantially U-shaped spring wire bail member, generally indicated at 20 is supported on the body by inserting the transverse cross section 22 thereof in the slots 14 and 16 and resting same on the ends of the slots. A head 24, having a reduced annular neck 26, which has a pair of oppositely positioned ribs 27 and 28, which also extend slightly below the neck are integrally formed and same are inserted in the body with the ribs 27 and 28 fitting into the slots 14 and 16 respectively, to rest adjacent the transverse member. The head and neck are suitably secured against removal in the cylindrical body and keep the bail member 20 from falling out of the body, but permit a hinging or pivotal movement of the arms of the bail member.

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The bail member has a pair of side arms 30 extending on the opposite sides of the body member, which arms extend downwardly and are curved inwardly as at 31, then outwardly as at 32, and the terminal portions 33 thereof are bent inwardly at right angles to the longitudinal axis of the sides.

Permanently secured to the transverse section of the bail member, centrally thereof, is a forwardly and downwardly extending finger 34 which is inclined at an angle with respect to the side arms, and which is to be engaged or struck by the post member, to be described, for operating the bail member.

The body portion 10 has a pair of longitudinal grooves or channels 36 formed on the opposite sides of the bore 12, which extend from the top of the body to a point closely adjacent the bottom, thereby providing shoulders 38 near the bottom.

Slidably secured in the body is a post 40 which carries a transverse pin 42 riding in the channels 36 and permitting the post to slide up and down in the bore 12 of the body. The pin engages the bottom of the shoulder 38 to prevent disengagement between the post and body and prevent the post from dropping out of the body. The upward limit of movement of the body with respect to the post occurs when the pin 42 strikes the shoulders 38 at the bottom of the channel 36, as shown in Fig. 1. This arrangement also prevents the turning of the post with respect to the body. The post has a reduced threaded extension 44 to which is secured the base 46.

Secured on the opposite sides of the body portion 10, forwardly of the transverse section of the bail, and in the path of movement of the arms 30 is a pair of tapered or cam sections 50 which are engaged by the arms 30, as the arms are raised or elevated, and which spread the arms, as shown in Fig. 4, to release the ball or projectile held between the arms and to propel it forwardly in the direction of the basket or other game target.

The assembly of the device will be briefly described. With the head portion 24 removed from the body 10, the post 40 is inserted from the top, with the transverse pin 42 engaging the channels 36. The spring wire bail member 20 is then inserted through the slots 14 and 16, to rest on the body, and the head 24 is secured to the top of

the body with the ribs **27** and **28** of the neck in the slots **14** and **16**, closing the body opening to prevent removal of the bail. The base **46** is secured to the post **40**.

The operation of the device will be briefly described. The ball **50**, or other projectile, has a pair of diametrically opposed recesses **52**, and the ends **33** of the spring arms engage the ball or projectile in the recesses and hold same until released. The weight of the ball **52** will cause the arms to drop to the position shown in Fig. 2, and the finger **34** engages the top of the post **40**, to thereby maintain the body portion **10** in its uppermost elevated position with respect to the post, as shown in Fig. 2. The device is thus moved about the playing board by the hand of the player holding the body portion **10**, and when positioned for play, the body is depressed with respect to the post, and when thus moved the post **40** will move the finger **34** on the bail from the angular position to a horizontal position, as shown in Fig. 3, which simultaneously moves the spring arms **30** upwardly with the ball, and as the arms move upwardly they will engage the cammed surfaces **56** and will spread laterally to release the ball and project it forwardly.

The fast upward movement of the arms, together with the spreading thereof causes the arms to project the ball forwardly in an arc. After the ball has been projected the body drops to its lowermost position, as shown in Fig. 3.

There is thus provided a game device which may be easily moved by the hand of the players over a game board surface to throw the ball to a basket, in much the same manner as practiced by basketball players.

It will be understood that various changes and modifications may be made without departing from the spirit and scope of this invention.

I claim:

1. A toy comprising a substantially tubular body portion, a substantially cylindrical base member having one end slidably received in said body portion, a pair of arms pivotally mounted on said body portion and arranged to releasably carry a projectile element, a member connecting said arms at their pivots and having an offset projection engageable with the top of said base member, and cam elements on opposite sides of said body and engageable by said arms, said cam elements when said arms are pivoted upwardly effecting a spreading apart of said arms whereby said projectile element is released.

2. A toy comprising two relatively movable members, a pair of arms pivotally mounted on one of said members, means associated with said arms and engageable with said other member for swinging said arms when said members are moved relative to each other, and cam means mounted on said first mentioned member and engageable by said arms and so constructed and arranged as to spread apart said arms when the same are pivotally moved.

3. A toy comprising a stationary member, a relatively movable member, a pair of arms pivotally mounted on said relatively movable member and adapted to releasably carry a projectile element therebetween, means associated with said arms and engageable with said stationary member for swinging said arms when said members are moved relative to each other, and cam means associated with said movable member and engageable by said arms to effect a spreading apart of said arms when the same are pivotally swung whereby to release said projectile.

4. A toy comprising a body portion, a supporting member having one end telescopically received in said body portion, a pair of arms pivotally mounted on said body portion, means associated with said arms and engageable with said supporting member for swinging said arms when said body portion is moved relative to said supporting member, and cam means associated with said body portion and engageable by said arms to effect a spreading apart of said arms when the same are pivotally swung whereby to release a projectile which may be supported between said arms.

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