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W. H. PRESTON

1,487,973

TOY CATAPULT

Filed July 3, 1923

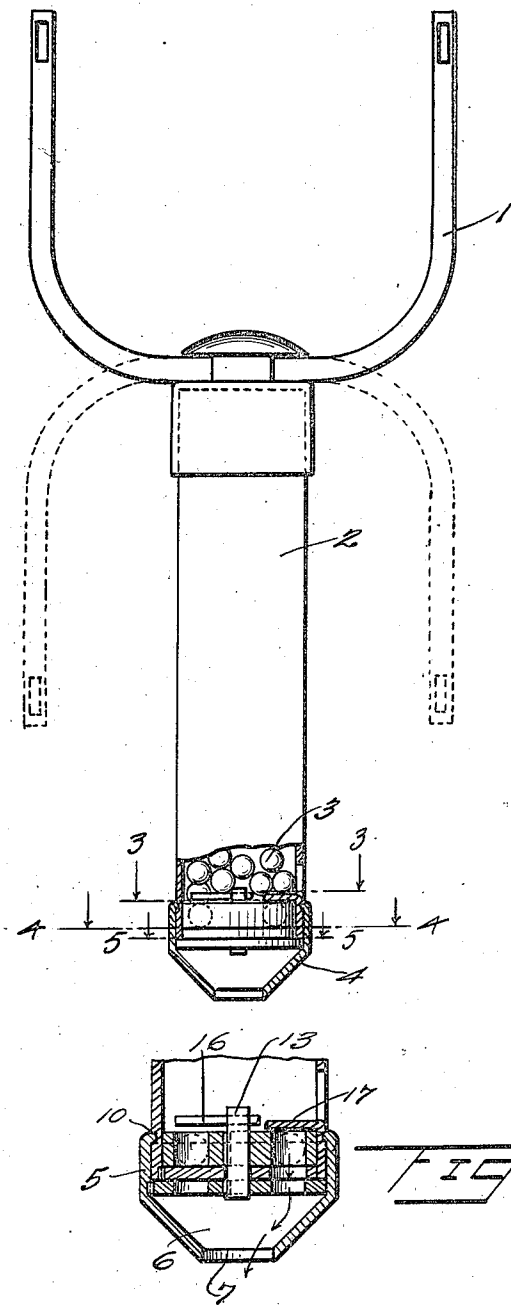


FIG. 1.

FIG. 3.

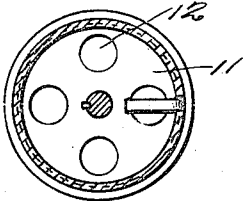


FIG. 4.

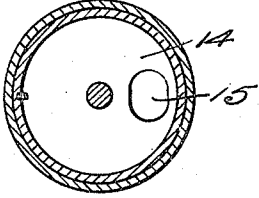


FIG. 5.

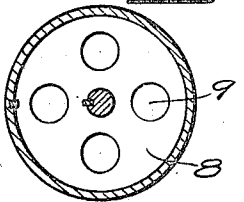


FIG. 2.

Inventor

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UNITED STATES PATENT OFFICE.

WILLIAM H. PRESTON, OF DENVER, COLORADO.

TOY CATAPULT.

Application filed July 3, 1923. Serial No. 649,332.

To all whom it may concern:

Be it known that I, WILLIAM H. PRESTON, citizen of the United States, residing at Denver, in the county of Denver and State of Colorado, have invented certain new and useful Improvements in a Toy Catapult, of which the following is a specification.

This invention relates to toys, and more particularly to a toy catapult such as employed by juveniles to discharge shot or other missiles.

The primary object of the invention is to provide a device of this character which will include a magazine to contain a relatively large quantity of shot and which will be adapted to be operated so that the shot may be removed one at a time from the magazine.

Other objects of the invention will appear upon consideration of the following detailed description and accompanying drawings, wherein:

Figure 1 is a side elevation of the device constructed in accordance with my invention, part being broken away to show the structure.

Figure 2 is an enlarged view of the discharging mechanism,

Figure 3 is a cross section taken on the line 3—3 of Figure 1,

Figure 4 is a cross section taken on line 4—4 of Figure 1, and

Figure 5 is a cross section taken on the line 5—5 of Figure 1.

Referring to the drawing by numerals, the yoke 1 is substantially U-shaped in formation and is adapted to be attached to rubber or elastic band in the well-known manner, and, in the present instance, this yoke is connected to one end of the hollow handle 2 which forms a magazine for the shot 3. The yoke 1 is adapted to be pivotally swung on the end of the handle 2 as indicated by dotted lines in Figure 1, so that the device may be more readily carried in the pocket.

The handle being hollow and of a suitable length, forms a convenient magazine to receive a plurality of shot 3, the lower end of the magazine being provided with a cover 4 which consists of the flange 5 on the end of the magazine and has a tapered spout 6 terminating in a discharge opening 7. Mounted in this cap is a disc 8 perforated with a plurality of holes 9 large

enough to permit the passage of a shot therethrough, and this disc is keyed to the cap 4 so that it may be turned with the cap when the latter is turned on the end of the magazine. The flange 5, it will be noted, has its edge provided with a lip 10 within an annular groove in the magazine, so that the cap is held in position and at the same time permitted to be turned. Arranged in the lower end of the magazine and spaced above the disc 8 is a retaining ring 11 which is also provided with a plurality of openings 12 similar to the openings 9. A central pin 13 extends centrally through both of the members 8 and 11 and each of the members 8 and 11 is keyed to the pin 13 so that they will be turned simultaneously when turning movement is imparted to the cap 5. Interposed between the disc 8 and the ring 11 is a guard plate 14, having a relatively large opening 15, and this plate is secured to the side of the magazine so that it is held against rotary movement and is loose on the pin 13 so that it will be held against movement when the other parts are turned. Attached to the upper end of the pin 13, which extends above the ring 11, is an agitator arm 16 which agitates the shot 3 in the magazine when the device is turned.

To prevent only one shot dropping into the opening 12 in the uppermost ring 11, when the opening 15 is aligned with any of the openings 12, a guard finger 17 is provided which is formed by an intumed strip of material pressed inwardly from the side of the magazine and extending across the top of the ring 11 as shown to advantage in Figures 2 and 3 of the drawings.

When one of the shot is to be removed from the magazine, the operator will grasp the cap 5 and impart a turning movement thereto until the opening is aligned with two of the openings 9 and 12, whereupon the shot, located in one of the openings 12, will drop through the cap as indicated by the arrows in Figure 2 and be received in the hand of the user. The member 17 will prevent any of the shot from passing into the openings until the device has been again turned to align two of the other openings with the opening 15 in the stationary plate 14.

Minor changes may be made in the de-

tails of construction without departing from the spirit of the invention or the scope of the claims hereunto appended.

What I claim is:

5 1. A device of the character described comprising a handle forming a hollow magazine, a cap on the lower end of the magazine and mounted to be turned thereon, a plurality of shot contained in the
10 magazine, a pair of discs spaced apart and connected together to turn simultaneously, one of the said discs being connected to the said cap whereby both of the discs will be turned when the cap is turned, each of the
15 said discs being provided with openings, and a plate interposed between the said discs and provided with a single opening adapted to be aligned with two of the said openings in the said spaced discs when the said
20 cap is turned to a predetermined position.

2. A device of the character described comprising a hollow handle forming a hollow magazine, a cap attached to one end of the magazine and comprising a flange
25 mounted to turn on the end of the magazine including a tapered discharge spout having an open end, a disc provided with openings secured to the said cap and turnable therewith, a central pin secured to the
30 said disc, a ring mounted in the magazine and spaced above the said disc and attached to the said pin, whereby the pin and ring will turn together when the top is turned, the said ring having openings in alignment
35 with the openings in the said disc, a plate fixed in the said magazine and arranged be-

tween the disc and ring and equipped with a single opening adapted to be aligned with the openings in discs and ring when the said cap is turned to a predetermined point, and a guard finger extending across the top of the said ring.

3. A device of the character described comprising a hollow handle forming a hollow magazine, a cap mounted on the end of the magazine and comprising a flange
45 adapted to turn on the magazine and provided with a tapered discharge chute having an open end, a central pin provided at its upper end with an agitator element, a
50 pair of discs spaced apart, one of the discs secured to the said cap, both of the discs secured to the said pin whereby both discs will turn when the said cap is turned, a stationary plate mounted in the space between the
55 discs, each of the said discs being provided with aligned openings, the said plate having a single opening adapted to be aligned with any of the said openings in the said discs when the cap is turned to a predetermined
60 position, and a guard finger extending across the top of the uppermost disc and across the openings therein when the opening in the said stationary plate is aligned with two of the openings in the said disc.

65 In testimony whereof, I have affixed my signature in the presence of two witnesses.

WILLIAM H. PRESTON.

Witnesses:

ELLEN C. HITTER,
W. S. GUSTIN.