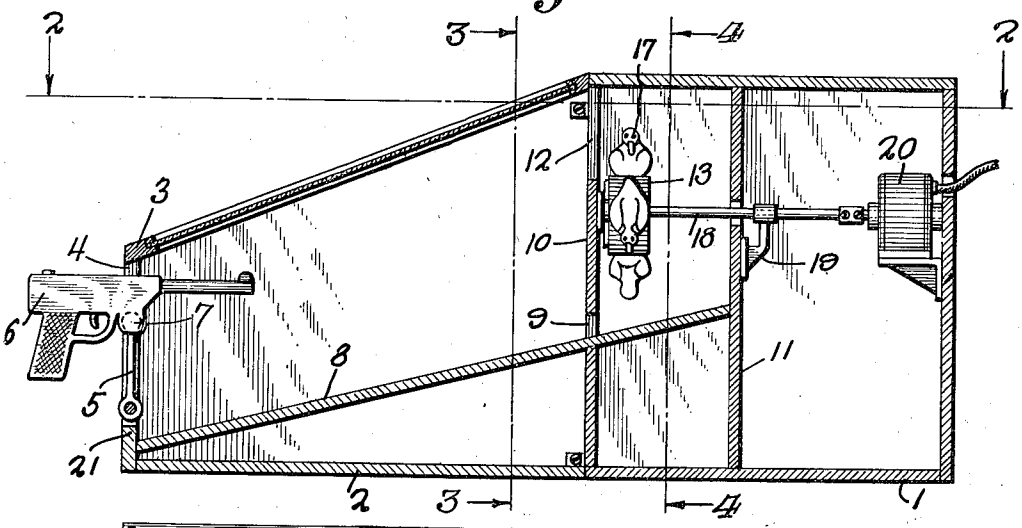
Nov. 19, 1929. L. G. BAKER 1,736,244

BALL SHOOTING GALLERY

Filed July 11, 1928 2 Sheets-Sheet 1

Fig. 1.



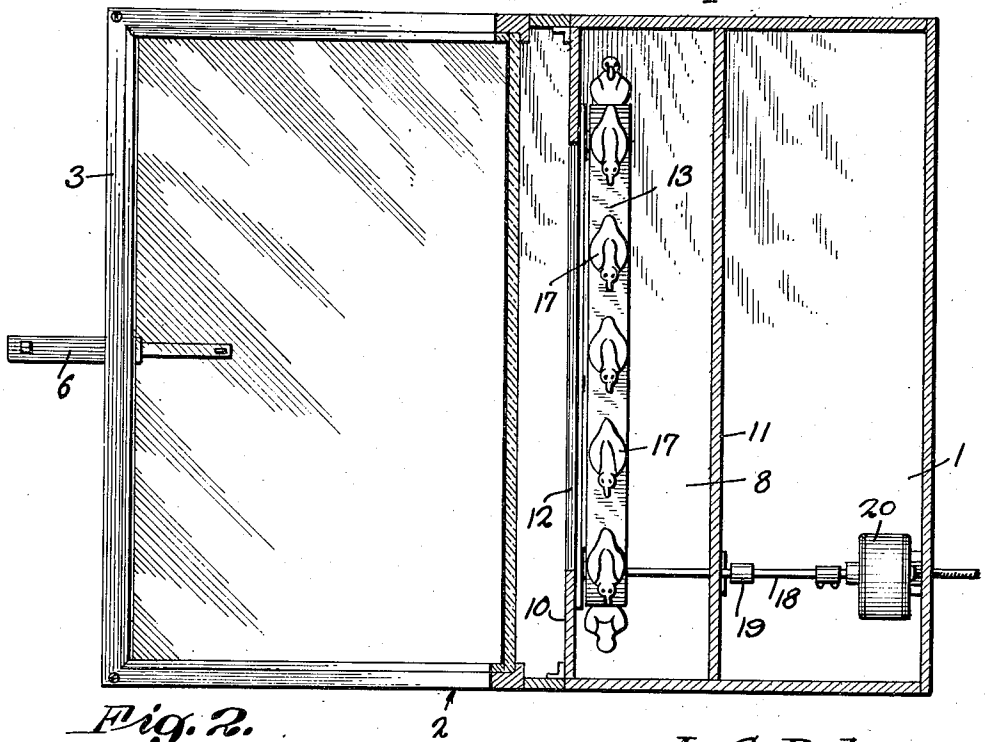


Fig. 2.

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Fig. 3.

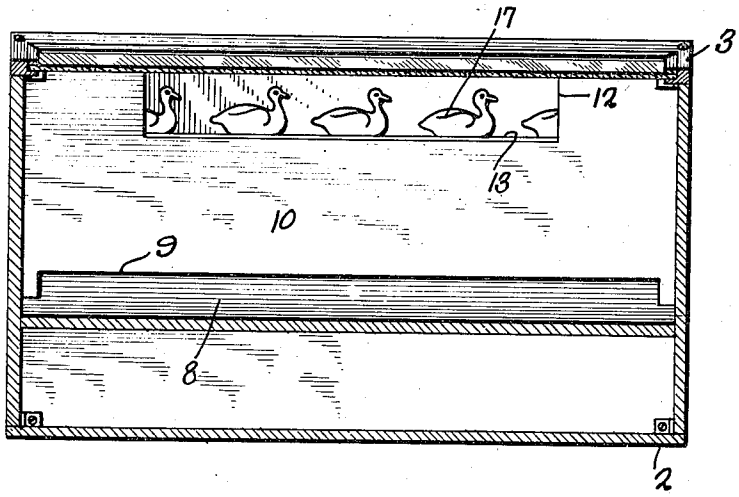
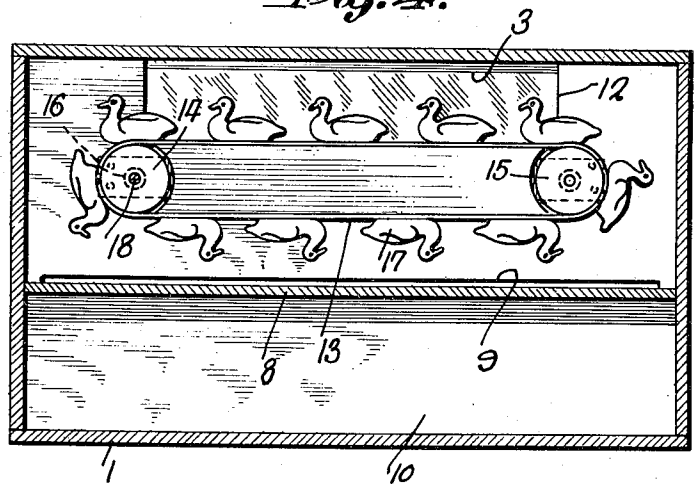


Fig. 4.



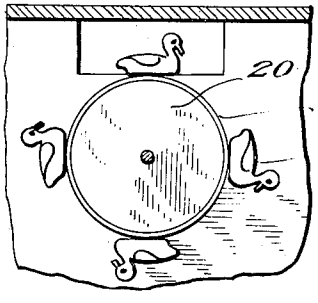


Fig. 5.

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UNITED STATES PATENT OFFICE

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BALL SHOOTING GALLERY

Application filed July 11, 1928. Serial No. 291,946.

My present invention has reference to a toy shooting gallery, the primary object of the invention being the provision of a device of this class in which constantly moving targets are provided and a pivotally supported spring actuated toy pistol which is charged with spheres or like projectiles which are designed to be projected onto the objects of the moving target, which latter are pivotally supported so that the force of contact of the projectile therewith will cause the said targets to be swung from a vertical to a substantial horizontal position and also wherein the projectiles are automatically returned to the front of the gallery so that they may be conveniently reloaded in the pistol.

The invention will be fully and comprehensively understood from a consideration of the following detailed description when read in connection with the accompanying drawings which form part of the application, with the understanding, however, that the improvement is capable of extended application and is not confined to the exact showing of the drawings nor to the precise construction described and, therefore changes and modifications may be made therefrom as do not affect the spirit of the invention nor exceed the scope thereof as expressed in the appended claims.

In the drawings:

Figure 1 is an approximately vertical longitudinal sectional view through the improvement.

Figure 2 is a horizontal sectional view on the line 2—2 of Figure 1.

Figure 3 is a transverse sectional view on the line 3—3 of Figure 1.

Figure 4 is a similar sectional view approximately on the line 4—4 of Figure 1.

Figure 5 is a detail sectional view illustrating a slight modification.

Preferably and as disclosed by the drawings I make use of a box-like rear structure 1 and a substantially rectangular front structure 2, the confronting ends of the said structures carrying brackets for the reception of removably secured elements. The front section 2 has its top arranged at a downward inclination and this top is covered by a glass carrying frame 3. Below the outer edge of the frame, the section 2 is open, as at 4, and in the said open front, adjacent to the bottom thereto there is pivoted a support 5 for a toy ball projecting pistol 6. The support 5 is in the nature of a rod having an eye end for the reception of a pivot 5′ that hingedly supports the rod in the lower portion of the opening 4. The second end of the rod 5 is provided with a ball head that is designed to be received in a spherical socket in the lower corner of the body of the pistol 6, forward of the trigger guard thereof. It will be thus noted that the support 5 provides both a hinged and swivel connection for the pistol so that the person using the same may arrange the pistol so that the barrel thereof will be disposed at desired inclinations or angles and the said pistol may be thus properly sighted by the user and effectively supported at such desired angles or inclinations.

This arrangement also permits of the pistol being aimed at any one of the movable targets which will hereinafter be described.

The front section 2, above its bottom and at a suitable distance below, the edge of the front provided with the opening 4, is provided with an upwardly inclined sub or false floor 8 which passes through an opening 9 in the front 10 of the section 1 and rests on the bottom wall provided by the said opening 9. The rear of the false and inclined floor 8 is secured to the transverse partition plate 11 in the section 1. The front wall 10 of the section 1 is formed with an opening or notch 12 that enters from its top, the same being elongated, and the lower wall provided by this opening is approximately in a line with what I will term the upper lead of an endless belt 13. The rounded ends of the belt are journaled on suitable wheels 14 and 15, respectively, which have their shafts journaled in adjustable bearings 16, respectively, whereby the belt may have its leads retained in taut condition. On the belt there is hingedly supported objects 17, shaped in the showing of the drawings to represent swimming ducks, but obviously other shaped objects may be employed. The bases for the objects are flat so that the same will rest upon the belt but

should any of the objects be contacted by a sphere projected by the pistol 6, the force of such contact will cause the said object to swing angularly on the belt.

The shaft for one of the wheels or rollers, indicated for distinction by the numeral 18, passes through a bearing opening in the partition plate 11, and likewise through a bearing 19 on the rear wall of the said partition plate. This shaft 18 is hitched to the shaft of a small electrically driven motor 20 which is suitably supported on the rear wall of the section 1 of the improvement. The conductors for the motor are suitably encased and provided with the usual plug for attaching the same to the socket of a house current. It will be apparent that light will be let onto the objects for the target through the transparent top of the section 2. The motor causes continuous turning of the belt, so that the targets 17 are constantly moved. The player of the game or apparatus can manipulate the pistol on its support to bring the barrel thereof in a line with the opening 12 and to the targets to the rear of the said opening. Should the sphere projected from the pistol strike any objects, the same will be swung on its hinged connection with the belt 13. Should the projectile pass over the objects it will hit the partition wall 11 and gravitate on the inclined false floor 8 through the opening 9 and will contact with the inner wall of the front 21 of the section 2, so that the pistol may be reloaded with such projectile. Should the aim of the player be so inaccurate as to strike the solid front 10 of the section 1, the sphere will also gravitate over the inclined sub floor 8 and rest against the wall 21 when the same may again be used by the operator.

In Figure 5 I have illustrated a slight modification wherein a single motor operated wheel 20 is employed. Fixed on the periphery of this wheel there is an endless band 21′ and hingedly supported on the band there are spaced objects 22, similar to the objects 17. The object are made to singly appear opposite the sight opening in the improvement and the said objects, of course, from targets for projectiles from the pistol 6.

The simplicity of my construction and the advantages thereof will, it is thought, be understood and appreciated by those skilled in the art without further detailed description.

Having described the invention, I claim:

1. In a device of the class described, a casing inclusive of a box-like rear structure having front and rear walls, a partition intermediate said walls dividing said box-like rear structure into front and rear compartments, a movable target in said front compartment, means in the rear compartment for moving said target, said front wall having an opening therein for the passage of a missile projected from the front of the casing and intended to strike said target, a gun at the front of the casing for projecting a missile, and a forwardly and downwardly inclined platform extending from said partition through the front wall of said box-like rear structure to the front of the casing down which projected missiles are adapted to roll to the front of the casing.

2. In a device of the class described, a casing inclusive of a box-like rear structure having front and rear walls, a partition intermediate said walls dividing said box-like rear structure into front and rear compartments, a movable target in said front compartment, means in the rear compartment for moving said target, said front wall having an opening therein for the passage of a missile projected from the front of the casing and intended to strike said target, a gun for projecting a missile, and a forwardly and downwardly inclined platform extending from said partition to the front of the casing down which projected missiles are adapted to roll to the front of the casing.

In testimony whereof I affix my signature.

LONNIE G. BAKER.