J. L. REYNOLDS.

BALL THROWING APPARATUS.

APPLICATION FILED MAR. 27, 1915.

1,196,741.

Patented Aug. 29, 1916.

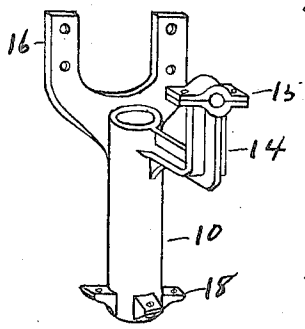



Fig. 4

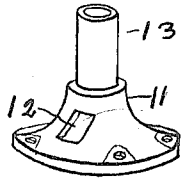



Fig. 5

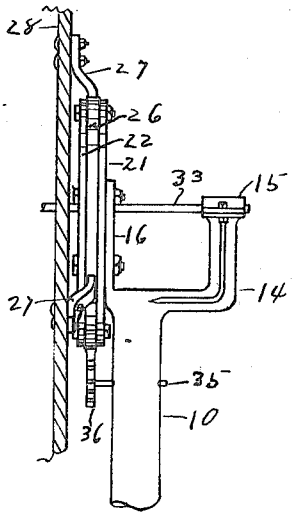



Fig. 2

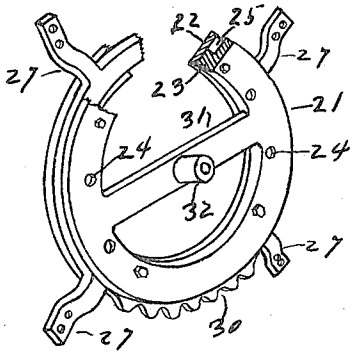



Fig. 3

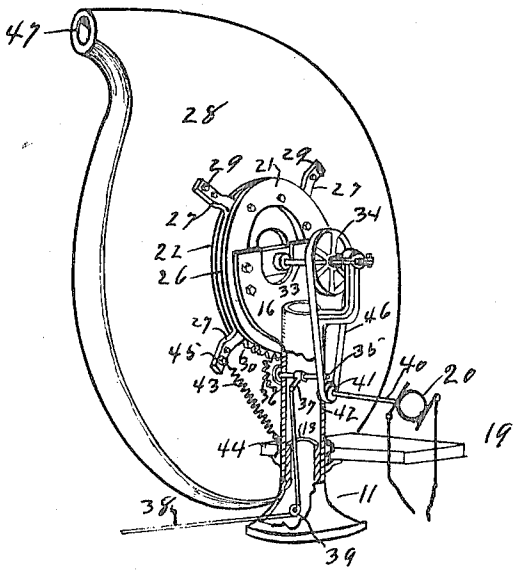



Fig. 1

WITNESS

E. L. Wickstrom

INVENTOR

Jay L. Reynolds

BY

L. L. Westfall

ATTORNEY

# UNITED STATES PATENT OFFICE.

JAY L. REYNOLDS, OF SPOKANE, WASHINGTON.

## BALL-THROWING APPARATUS.

1,196,741. Specification of Letters Patent. Patented Aug. 29, 1916.

Application filed March 27, 1915. Serial No. 17,563.

*To all whom it may concern:*

Be it known that I, JAY L. REYNOLDS, a citizen of the United States of America, residing at Spokane, in the county of Spokane and State of Washington, have invented certain new and useful Improvements in Ball-Throwing Apparatus, of which the following is a specification.

This invention pertains to ball throwing apparatus of the character whereby a ball is thrown from the interior of a casing by means of rotating arms or the like.

The object of the invention is to provide a means for mounting the casing in such a manner that the same may be turned sidewise to vary the lateral path of the balls to be thrown therefrom, and rotated clock-wise or contra-clockwise to vary the height of the balls to be thrown therefrom.

The device will be illustrated and shown in connection with a ball throwing apparatus of the character described.

In the accompanying drawings, Figure 1, is a perspective view of the mounting device attached to a ball throwing apparatus of the character described, with the supporting pedestal broken away. Fig. 2, is a front view of the supporting device with the pedestal broken-away, showing also a broken-away sectional view of the casing of a ball throwing apparatus, Fig. 3, is a view of disks entering into the construction of the device and mounted between the casing and the supporting pedestal, Fig. 4, is a detail view of the upper portion of the supporting pedestal, and Fig. 5, is a detail view of the base of the supporting pedestal.

In a detail description, in which like numerals refer to like parts throughout the several views, a hollow pedestal 10 has a hollow base 11 having an opening 12 through the side wall thereof and a hollow stud 13 extending upwardly therefrom and extending into the pedestal 10.

An arm 14 attached to the pedestal 10 supports a boxing 15. The pedestal 10 also supports a plate 16 attached thereto. At the bottom of the pedestal 10 are lugs 18 serving as supports for a table 19 upon which is mounted a motor which is symbolically represented by 20. Two disks 21 and 22, the former being provided with an annular extension 23, are joined together as by rivets 24, there being a groove 25 formed therebetween in which is rotatably mounted a third disk 26 having outwardly extending arms 27 which are attached to the casing 28 as by bolts 29. On the periphery of the lower portion of the disk 26 is a mutilated gear 30. Across the disk 21 is a bar 31 at the center of which is a bearing 32. The parts are assembled as shown in Fig. 1 with a shaft 33 carrying a band wheel 34 mounted in the bearings 15 and 32.

Rotatably mounted across the pedestal 10 is a shaft 35 carrying a gear 36 meshing with the gear 30 on the disk 21. Rigidly secured to the shaft 35 is a lever 37 to which is attached a cable 38. Within the base 11 is mounted a pulley 39. The cable 38 passes over the pulley 39 and outwardly through the opening 12 of the base 11.

A shaft 40 leading from the motor 20 carries a band wheel 41 and is journaled to the pedestal 10 as at 42. A coil spring 43 has one end secured to the table 19, as at 44, and the other end secured to the casing 28 or to one of the arms 27, as at 45. A band 46 passes over the wheels 34 and 41.

The shaft 40 is rotated by means of the motor 20 and by means of the band connection above mentioned the shaft 33 is rotated thereby rotating the arms (not shown) within the casing 28 to throw a ball through the barrel 47. The coil spring 43 normally holds the casing 28 in substantially the position shown in Fig. 1 which will cause the barrel 47 to direct a maximum low ball. When it is desired to throw a higher ball, the cable 38 is manually drawn pulling downwardly the lever 37 and rotatating the shaft 35 which rotates the gear 36 meshing with the gear 30, thereby rotating the disk 26 attached to the casing 28 which elevates the barrel 47 thereby causing a higher ball to be thrown through the same. When the cable 38 is released, the coil spring 43 will rotate the mechanism mentioned to carry the casing 28 back to normal position or to the position shown in Fig. 1.

The casing 28 is rotated sidewise by manually turning the pedestal 10 upon the base 11.

What is claimed is,

1. A device for changing the position of the casing of a ball throwing apparatus, comprising a pedestal and a base, the pedestal rotatably mounted on the base, a pair of disks secured together and vertically mounted on the pedestal with a groove between said disks, a third disk rotatably mounted in said groove and having out-

wardly extending arms, a casing for carrying a ball having a barrel through which a ball is thrown from said casing, to which casing said arms are attached, means for normally holding said casing in a predetermined position and means for manually changing the position of said casing for elevating said barrel and automatic means for returning said casing to normal position.

2. A device for changing the position of the casing of a ball throwing apparatus, comprising a pedestal and a base, a pair of disks secured together and vertically mounted on the pedestal with a groove between said disks, a third disk rotatably mounted in said groove and having outwardly extending arms, a casing for carrying a ball having a barrel through which a ball is thrown from said casing, to which casing said arms are attached, means for normally holding said casing in a predetermined position and means for manually changing the position of said casing for elevating said barrel and automatic means for returning said casing to normal position.

In testimony whereof I affix my signature in presence of two witnesses.

JAY L. REYNOLDS.

Witnesses:
H. M. WILEY,
L. L. WESTFALL.