D. H. KLEINSCHMIDT.

EXERCISING OR GAMING APPARATUS.

APPLICATION FILED MAY 14, 1914.

**1,132,101.** Patented Mar. 16, 1915.

Fig. 1.

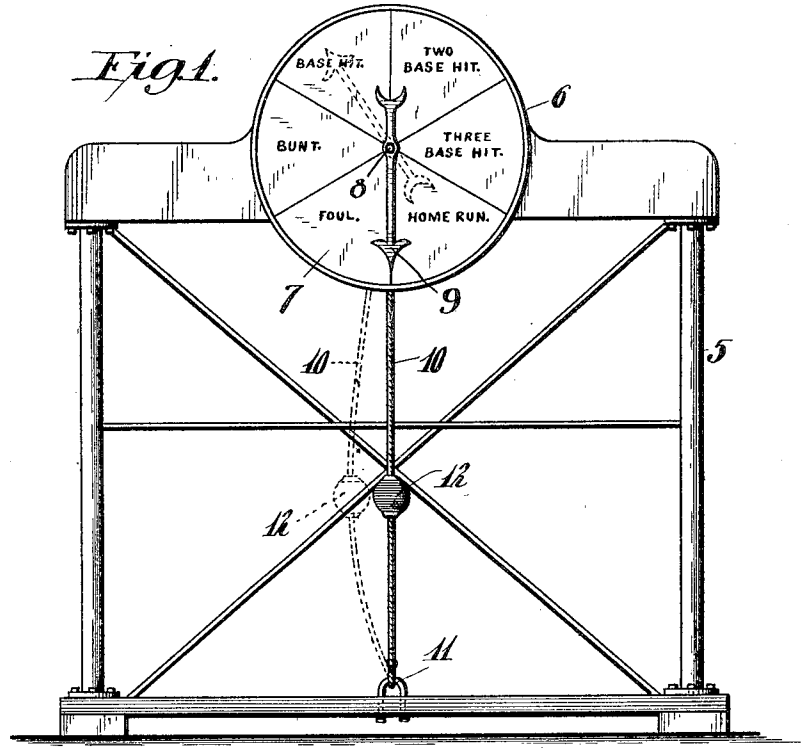



Fig. 2.

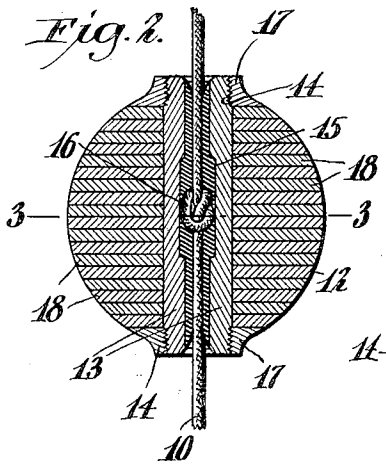
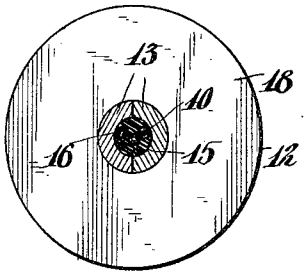



Fig. 3.



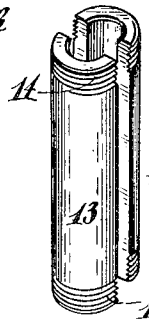




Fig. 4.

Witnesses;
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

# UNITED STATES PATENT OFFICE.

DANIEL HERMAN KLEINSCHMIDT, OF BUFFALO, NEW YORK.

## EXERCISING OR GAMING APPARATUS.

1,132,101. Specification of Letters Patent. Patented Mar. 16, 1915.

Original application filed January 17, 1914, Serial No. 812,711. Divided and this application filed May 14, 1914. Serial No. 838,550.

*To all whom it may concern:*

Be it known that I, DANIEL HERMAN KLEINSCHMIDT, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Exercising or Gaming Apparatus, of which the following is a specification.

My invention relates to improvements in exercising or gaming apparatus designed for automatically registering the force of a blow applied with a baseball bat or other similar object, and it relates more particularly to the construction and manner of applying a ball or other spherical object to the apparatus against which a baseball bat is adapted to be forcibly directed.

This application is a division of my copending application for exercising machines or gaming apparatus, filed January 17, 1914, Serial No. 812,711, and this invention consists in the novel features of construction and the arrangement and combination of parts to be hereinafter described and more particularly pointed out in the subjoined claims.

In the drawings,—Figure 1 is a front elevation of my improved apparatus. Fig. 2 is an enlarged central vertical section through the ball adapted to be struck with a bat or other similar object. Fig. 3 is a horizontal section taken on line 3—3, Fig. 2. Fig. 4 is a detached perspective view of the two part core or sleeve employed in the construction of the ball.

Referring now to the drawings in detail, like numerals of reference refer to like parts in the several views.

The reference numeral 5 designates the frame work of the apparatus which may be variously constructed and which supports an indicator 6 having an indicating dial 7, and a rotatable spindle 8 to which an indicating finger 9 is secured. The spindle 8 is actuated by means of a cord or cable 10 fastened at its lower end in a fixed manner to the frame work 5, as at 11, and coöperating in any practicable manner to cause the rotation of the spindle 8 upon a pull being exerted on the cable.

Secured to the cable is a spherical element or ball 12, representing a baseball, said element or ball being adapted to be forcibly struck with a baseball bat, whereupon the cable will be deflected laterally with a component downward pull, sufficient to cause the indicating finger 9 to move in front of the indicator dial, the extent of movement of said finger depending upon the deflection and downward pull of the cable, which is governed by the force of the blow directed against the ball secured thereon.

The spherical element or ball 12 comprises a two-part core 13 which, when the two parts are placed against each other, forms a divided cylindrical sleeve, the ends of which are threaded, as at 14. The bore of this sleeve is provided with an enlargement 15 between its ends and it is placed over the cable which is provided with a knot or enlargement 16 adapted to enter the enlargement of the bore.

Nuts 17, of any suitable material, are threaded onto the threaded end portions of the core, and between these nuts are placed a series of disks 18 which are gradually enlarged from the nuts toward the horizontal center of the ball, as clearly shown in Fig. 3, so as to give the latter the desired spherical formation. These disks are preferably made of rawhide, but may be constructed of any other suitable material capable of withstanding the wear and force of the blows directed thereagainst. When the ball is thus applied to the cable, it may be fastened in place by pouring molten lead or other metal into the bore of the core or sleeve, as clearly shown in Fig. 3.

Having thus described my invention, what I claim is,—

1. In an apparatus of the kind described, a cable, and a ball secured to said cable, said ball comprising a central member, a series of disks surrounding said central member and jointly shaped to represent a ball.

2. The combination of a cable and a ball secured to said cable, said ball comprising a series of disks jointly shaped to spherical formation, and means for retaining said disks upon said cable.

3. In an apparatus of the kind described, a cable, and a ball secured to said cable, said cable having an enlargement and said ball comprising a two-part core adapted to fit over said cable, said core having an axial bore with an enlarged portion to receive the enlargement of said cable, and a series of disks surrounding said core and being gradually diminished in size in opposite directions from the horizontal center.

4. In an apparatus of the kind described,

a cable having an enlargement formed thereon, and a ball secured to said cable and comprising a two-part core having an axial bore enlarged midlength to receive the enlargement of said cable, said core being externally threaded at opposite ends and having nuts threaded onto said ends, and disks surrounding said core between said nuts and being gradually diminished in diameter in opposite directions from the horizontal center of the ball, said bore having molten metal cast thereinto to secure the cable within the core.

5. In an apparatus of the kind described, a cable, and a ball secured to said cable and comprising a core having an axial bore through which said cable is passed, nuts applied to the ends of said core, and disks surrounding said core between said nuts and jointly shaped to represent a ball.

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

DANIEL HERMAN KLEINSCHMIDT.

Witnesses:
EMIL NEUHART,
JACOB OBERST, Jr.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."