Feb. 6, 1923. 1,444,542

J. G. GROSSHEIM

PUNCHING BAG SUSPENSION HANGER

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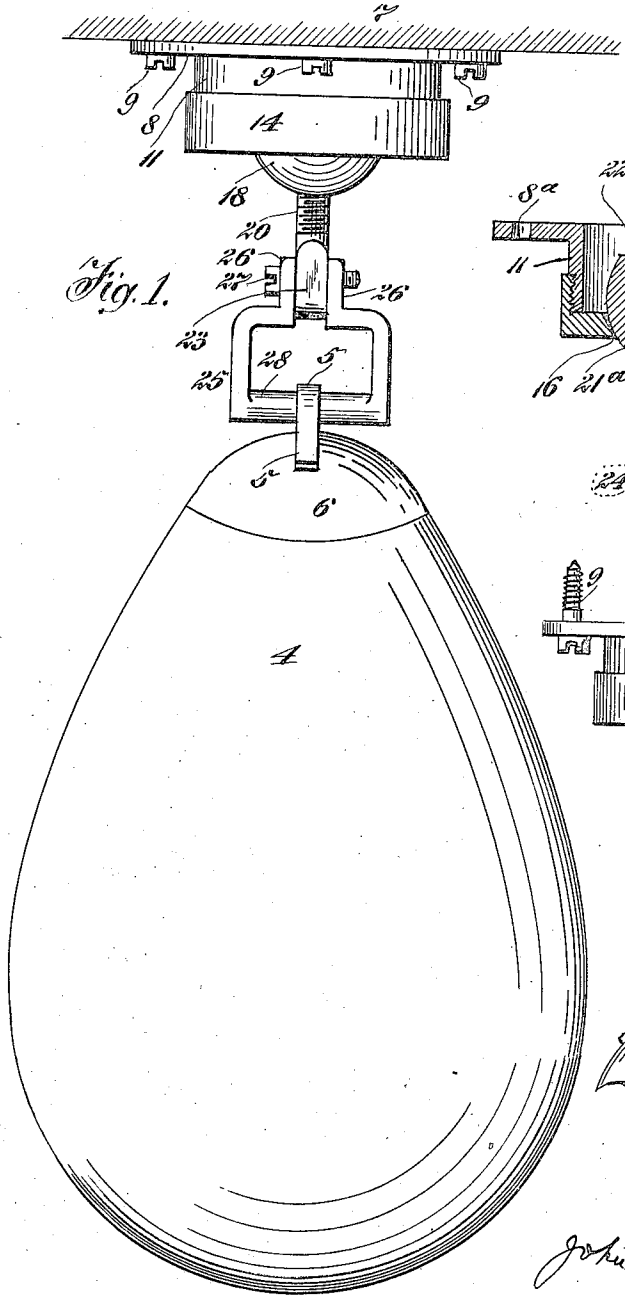

Fig. 1.

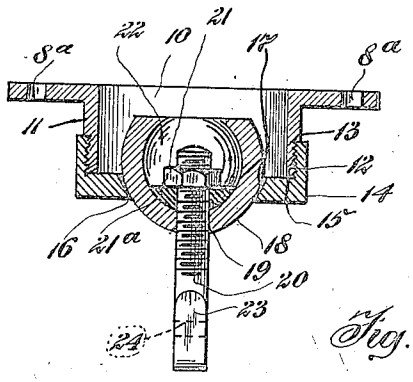

Fig. 3

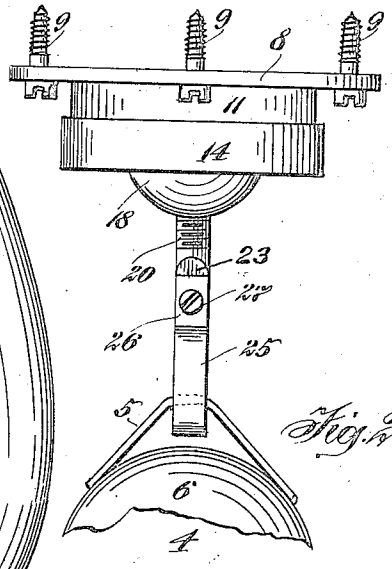

Fig. 2

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UNITED STATES PATENT OFFICE.

JOHN GEORGE GROSSHEIM, OF CINCINNATI, OHIO.

PUNCHING-BAG SUSPENSION HANGER.

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To all whom it may concern:

Be it known that I, JOHN GEORGE GROSSHEIM, a citizen of the United States of America, and a resident of Cincinnati, in the county of Hamilton and State of Ohio, have invented a certain new and useful Improvement in Punching-Bag Suspension Hangers, of which the following is a specification.

This invention relates to suspension devices for punching or striking bags or balls that are extensively used for athletic exercise, and the object thereof is to provide a readily-detachable ball-and-socket upper-member, a stirrup and adjustable-stem intermediate-member and a loop-strap lower connecting-member that are arranged in vertical sequence whereby the punch or strike bag or ball may be suspended from a ceiling or other suitably elevated or overhead supporting-means and thereby adapted to be hung in the usual rebounding position before the athlete or other user and to be readily released from said position by simply unscrewing the ball-and-socket connection from the ceiling-plate, or otherwise disconnecting the bag or ball from its stirrup-connection with the said adjustable-stem, when it is desired to remove the bag or ball from using-place and to thus provide for its safe-keeping when the user intends it for his purpose alone and not subject to undue wear and careless handling by others than himself, all of which is a desirable feature in the sale and use of sporting goods of this character, and the replacing or re-hanging of the bag or ball and its hanging-device just as easily accomplished by simply screwing the socket-member to the said ceiling-plate, all of which will be fully hereinafter described in connection with the accompanying sheet of drawings, in which—

Figure 1 is an elevation of the punching-bag outfit herein complete, the same being shown in suspended position (but with the bag on a slightly reduced scale) ready for use; Fig. 2, a similar view, at right-angles thereto, however, and with the ceiling or overhead supporting-means omitted and also with the punching-bag broken off just below its upper end or loop-tip; and Fig. 3, a vertical central or axial section of the hanger-device embodying my invention herein, (but omitting the stirrup-member.)

4 indicates the ordinary punching or striking bag or ball, having a suspension loop or strap 5 that is stitched or otherwise secured in place to the tip or upper end 6 thereof.

7 indicates a cross-section of the ceiling or other suitable overhead-support for the hanging of the punching-bag in position for athletic or exercising use, such as buffeting it about with the clinched hand or fist in semblance of boxing, or in practicing for a boxing-bout.

8 indicates a circular disk or plate having a circular series of holes 8^a pierced therein near its edge, for the entrance of the fastening-screws 9. A central orifice 10 is provided in the plate 8, surrounded by a depending-flange 11, the latter being externally screw-threaded at 12 and shouldered at 13, as best shown in Fig. 3.

14 is a circular cup or box having an internal screw-thread 15 and provided with an orificed center 16, the latter being inwardly beveled as best shown at 17 in Fig. 3. This cup or box 14 is adapted to be readily screwed into fastening-place on the lower threaded-end of the depending-flange 11, as also best shown in the said Fig. 3.

18 is a hollow partially-full spherical ball, opening upwardly and with its greatest diameter slightly larger than that of the beveled orificed-center 16 of the cup or box 14 in which it is adapted to pivotally-seat on the said bevel-edge 17, as also best shown in said Fig. 3, to form a ball-and-socket bearing for universal swivel or pivotal movement within the range of the said ball 18. A screw-threaded hole 19 is made in the lower central-portion of the hollow bearing-ball 18 for the reception of the vertical screw-threaded stem or shank 20 that is adjustably-mounted therein and is held in adjusted-position by means of a nut 21 that seats on a self-adapting jamb-block 21^a in the bottom of the cavity 22 of the said hollow bearing-ball 18. The lower end of the stem or shank 20 is made flat-sided to give it full-width strength and good wearable thickness, as shown at 23, and said lower end is pierced with a transverse opening or hole 24, shown in dotted-lines in Fig. 3.

25 is a stirrup having right-angled upper jaw ends or forks 26, 26, between which latter the lower flat-sided end 23 of the stem or shank 20 is interposed and a screw 27 is passed through a hole made in one of said jaw-forks 26, thence through the said hole 24 in the lower flat-sided end 23 of the stem

or shank 20 and thence into and beyond a threaded opening made in the other of said jaw-forks 26, as best shown in Fig. 1, whereby the stirrup is secured in swinging or pivotal place at the said lower end 23 of said stem or shank 20. To the lower cross-bar 28 of the stirrup the loop or strap 5 of the punching bag 4 is engaged, such engagement being primarily effected by removing the screw 27 from the jaw-forks 26, 26, and withdrawing the stirrup from the lower end 23 of the said stem or shank 20, and then placing said loop into the stirrup by way of the opening or gap between the said jaw-forks, and then restoring the said screw 27 and the lower end 23 of the stem or shank into normal connected-position.

The principal feature of advantage in the use of my device herein is the readiness of mounting the bag and the ball-and-socket members that are connected together into suspended-position from screwed-connection of the cup or box 14 with the depending-flange 11 of the ceiling-plate or overhead-support 8, the latter only being left in handy or ordinarily fixed place for the easy hanging of the punching-bag when it is desired for athletic use.

I claim:—

1. In a suspension-hanger device for punching-bags the combination of a ceiling or overhead member, a box having connection with said ceiling-member and provided with a central inwardly-beveled bearing-orifice, a spherical bearing-ball member pivotally-engaging the said beveled bearing-orifice in the box, and a stirrup-member having an upwardly-extending stem in engagement with the lower extending-face of the said spherical bearing-ball member and also provided with a lower cross-bar adapted for the reception and pivotal-engagement of the suspension-loop of the punching-bag.

2. A suspension-hanger device for a punching-bag comprising a ceiling disk-member having a central depending outwardly-threaded deep flange, a cup or box member having readily detachable threaded-connection with the said threaded flange of the said ceiling-member and also provided with an inwardly-beveled central bearing-orifice, a hollow partially-spherical ball-member pivotally-mounted in the said beveled bearing-orifice of the box-member, and a stirrup having an upwardly-extending stem pivotally-attached thereto and adapted to engage the lower extending-face of the said ball-member and also provided with a lower cross-bar that is adapted for the reception and pivotal or swinging engagement of the suspending-loop of the punching-bag, substantially as herein shown and described.

JOHN GEORGE GROSSHEIM.