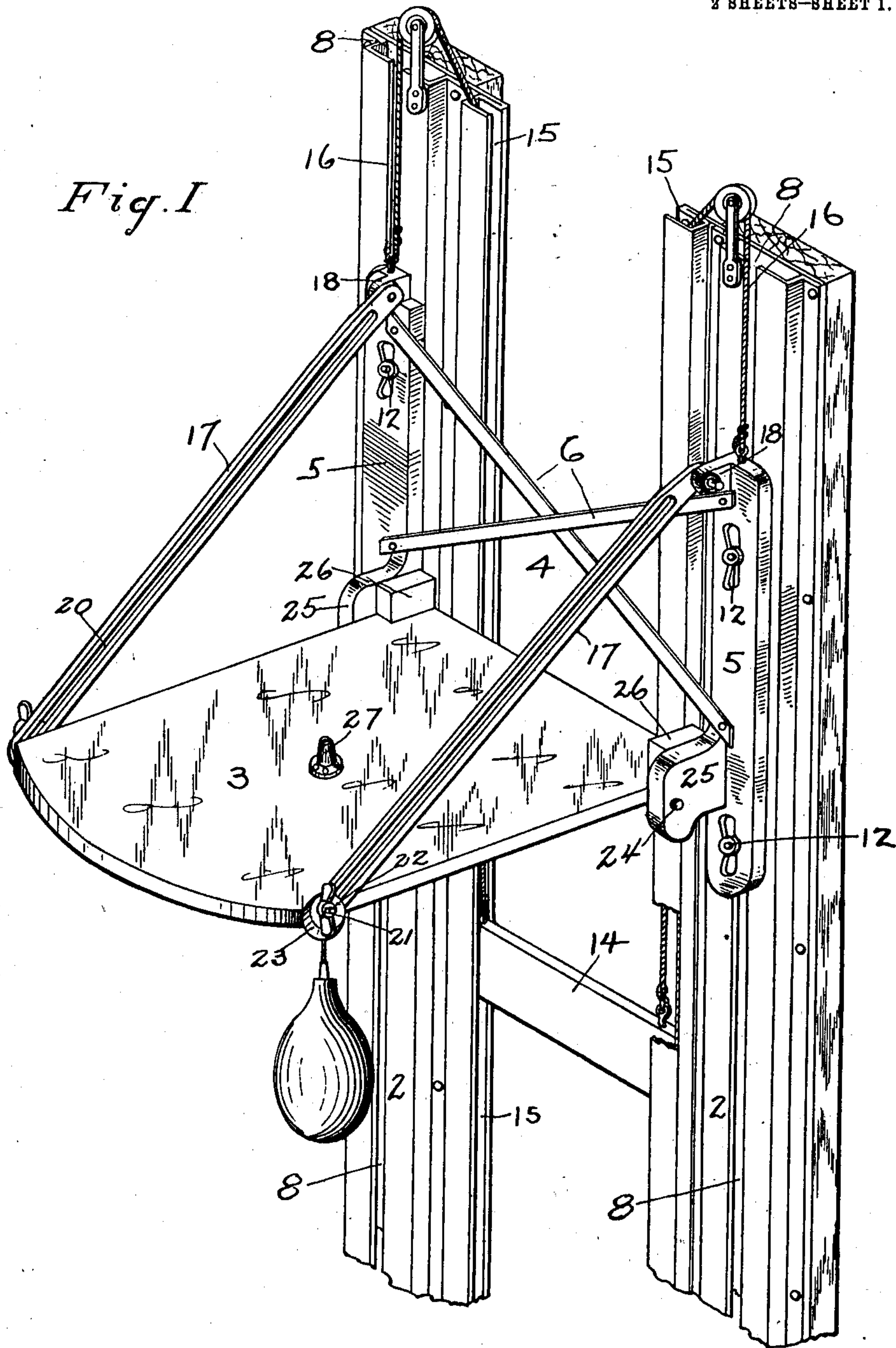


J. T. GORMAN.
STRIKING BAG APPARATUS.
APPLICATION FILED APR. 20, 1910.

992,868.

Patented May 23, 1911.

2 SHEETS—SHEET 1.



WITNESSES
H. G. Post.
P. S. Tidwell

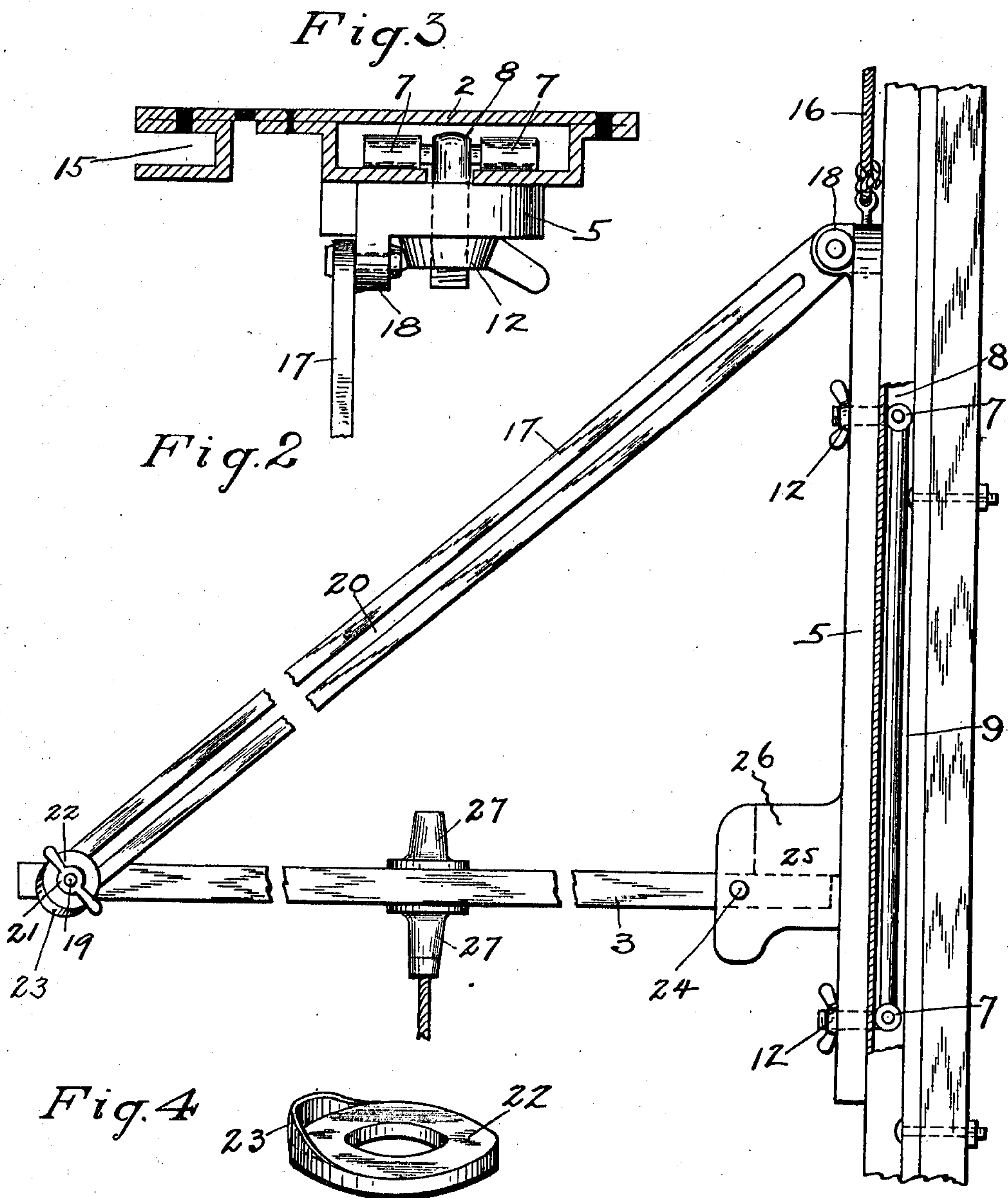
INVENTOR
JOHN T. GORMAN
By *Miller & White*
ATTORNEYS

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UNITED STATES PATENT OFFICE.

JOHN T. GORMAN, OF SAN FRANCISCO, CALIFORNIA.

STRIKING-BAG APPARATUS.

992,868.

Specification of Letters Patent.

Patented May 23, 1911.

Application filed April 20, 1910. Serial No. 556,565.

To all whom it may concern:

Be it known that I, JOHN T. GORMAN, a citizen of the United States, and a resident of the city and county of San Francisco and State of California, have invented certain new and useful Improvements in Striking-Bag Apparatus, of which the following is a specification.

The invention relates to improvements in striking bag apparatus and particularly to means for adjusting the height of the rebound board to which the bag is attached and to means for holding the rebound board rigid at any desired angle.

The object of the invention is to provide a striking bag apparatus having a rebound board to which the striking bag is attached, which can be adjusted to lie at any desired angle to enable the person using the bag to employ a greater variety of exercises than would be possible with a horizontal board.

Another object of the invention is to provide a rebound board which may readily be adjusted to any height above the floor to accommodate the person desiring to use the same.

A further object is to provide a frame on which the rebound board is pivoted, with means for holding the board rigid at whatever angle it is set.

Striking bag apparatus as heretofore constructed have been provided with a rebound board held in a horizontal position and with means for raising and lowering the board to accommodate persons of various heights. The means of raising and lowering the board, however, have been difficult to manipulate. Some apparatus have been constructed also in which the board is adapted to be moved to a vertical position so that the board will be inobstructive when not in use. To my knowledge, however, no apparatus has heretofore been constructed in which the board may be set and used at any desired angle.

To these objects the invention consists of a rebound board pivotally attached to a slidable frame and provided with means for holding the board at any desired angle.

The device possesses other advantageous features, which, with the foregoing, will be set forth at length in the following description, where I shall outline in full that form or embodiment of the invention which I have selected for illustration in the drawings ac-

companying and forming part of the present specification. From this, it will be apparent that I do not restrict myself to the showing made by such drawings and descriptions, as I may adopt many variations within the spirit and scope of my invention.

Figure 1 is a view of the complete apparatus in perspective, the board being set in a horizontal position, the lower ends of the vertical guides being broken away to reduce the size of the figure. Fig. 2 is a side elevation of the rebound board and the slidable frame, the board being in a horizontal position and being partly broken away. Fig. 3 is a cross-section through one of the vertical guides, showing one of the members of the sliding frame. Fig. 4 is a perspective view on an enlarged scale of the locking device.

The striking bag apparatus of my invention consists of two vertical guides 2 which are adapted to be secured to a wall or other suitable frame-work. These guides 2 are preferably formed of sheet metal, bent or rolled into the desired shape.

The rebound-board 3 which may be of any desired shape or construction, is mounted on a frame 4 adapted to slide in the guides 2. The frame 4 is composed of the two plates 5, which are preferably formed of castings and the diagonal braces 6, secured to the plates and holding them rigid with respect to each other, so that the frame moves as a unit. The plates 2 are held in any desired vertical position by means of the rollers 7 engaging in the slots 8 of the vertical guides 2. The rollers 7 are mounted on a bent bar 9, the legs of which are screw-threaded and extend through the plate 2. Wing-nuts 12 on the screw-threaded legs are provided to clamp the plates against the guides to hold the frame 4 in any desired position. When it is desired to vary the height of the board 3, the wing-nuts 12 are loosened and the frame 4 moved. To assist in this adjustment I have provided a counter-weight 14, slidable in the grooves 15 and attached to the frame by cords or wires 16 passing around the pulleys at the upper end of the guides.

The rebound board 3 is adapted to be adjusted and held at any desired angle by means of the slotted brace-rods 17. The brace-rods are pivoted to the lug 18 on the upper end of the plate 5 and are adjustably attached to the outer end of the rebound-

board 3, by means of bolts 19 which are securely attached to the board and which engage in the slot 20 in the brace-rods 17. The board is clamped to the brace-rods by means of the wing-nuts 21 on the bolts 19. To prevent the bolt 19 from sliding in the slot 20, under the impulse of the bag, when the board is in a horizontal position, I have provided a novel locking device which consists of a washer 22 having a lip 23 standing at right angles thereto. The washer is set so that the lip 23 bears against the end of the brace-rod 17, and all strains which tend to slide the bolt 19 in the slot 20 are taken up by the lip 23. The other end of the board 3 is pivoted at 24 to the lug 25 of the plate 5. The pivot 24 is so placed that when the board is in a horizontal position, the upper face thereof bears against the lower face of the lugs 26 formed on the plates 5, thereby holding it rigid and preventing jarring. Similarly when the board is in its vertical position, it bears against the front face of the lugs 26.

When it is desirable to adjust the board to an angular position from the horizontal position, the wing nuts 21 are loosened, the washers 22 are turned so that the lip 23 is moved from engagement with the end of the brace-rod, and the board is tilted to the desired angle, the bolts sliding in the slot 20, and is clamped in the angular position by means of the wing-nuts 21. The washers 22 are so constructed that when the lip is turned to lie against the side of the brace-rod, it will readily ride along and not interfere with the angular adjustment. It is understood that the washer acts as a locking device, only when the board is in a horizontal position, and the board is held in angular positions by the pressure exerted on the rods 17 by the wing nuts 21 on the bolts 19.

Swivels 27 for attaching the bag are arranged on both sides of the rebound-board, so that the board may be raised and the bag suspended below it, or the board may be lowered to the floor and the bag attached to the upper surface to be used by a person standing over the bag and striking it from above.

It is understood that I do not limit myself to the exact construction set forth as it is evident that many changes could be made without varying from the spirit or scope of my invention.

I claim:

1. In a striking bag apparatus, the combination of a vertical frame, a slidable frame mounted thereon, a rebound-board pivoted to the slidable frame and means for holding the rebound-board at an angle to the horizontal.
2. In a striking bag apparatus, the combination of a vertical frame, a slidable frame mounted thereon, a rebound-board pivoted near its rear end to the slidable frame, and adjustable holding means for varying the angular position of the rebound-board.
3. In a striking bag apparatus, the combination of a vertical frame, a slidable frame mounted thereon, a rebound-board pivoted at its rear end to the slidable frame, means for adjusting and holding the rebound-board at any angle and means for locking the same in a horizontal position.
4. In a striking bag apparatus, the combination of a vertical frame composed of slotted members, a slidable frame carrying the rebound-board, means for engaging the slotted members for holding the sliding frame in position, and a counter-weight attached to said slidable frame.
5. In a striking bag apparatus, a rebound-board angularly adjustable between the vertical and horizontal positions.
6. In a striking bag apparatus the combination of a rebound-board and means for adjusting and setting said board at an angle between the vertical and the horizontal plane the board being movable upward in a vertical arc from the horizontal to the vertical plane.
7. In a striking bag apparatus, a vertically adjustable frame, a rebound-board adjustably attached to said frame for angular adjustment with relation thereto, and bearing surface on the frame adapted to bear against the rebound-board, when said board is in the horizontal or vertical operative position.
8. In a striking bag apparatus, a rebound board angularly adjustable between the vertical and horizontal positions, slotted arms engaging said board and means for positively locking the board to the arm when the board is in the horizontal position.

JOHN T. GORMAN.

Witnesses:

H. G. PROST,
P. S. PIDWELL.