No. 710,113. Patented Sept. 30, 1902.

G. S. MAXWELL.

PUNCHING BAG SUPPORT.

(Application filed June 12, 1902.)

(No Model.)

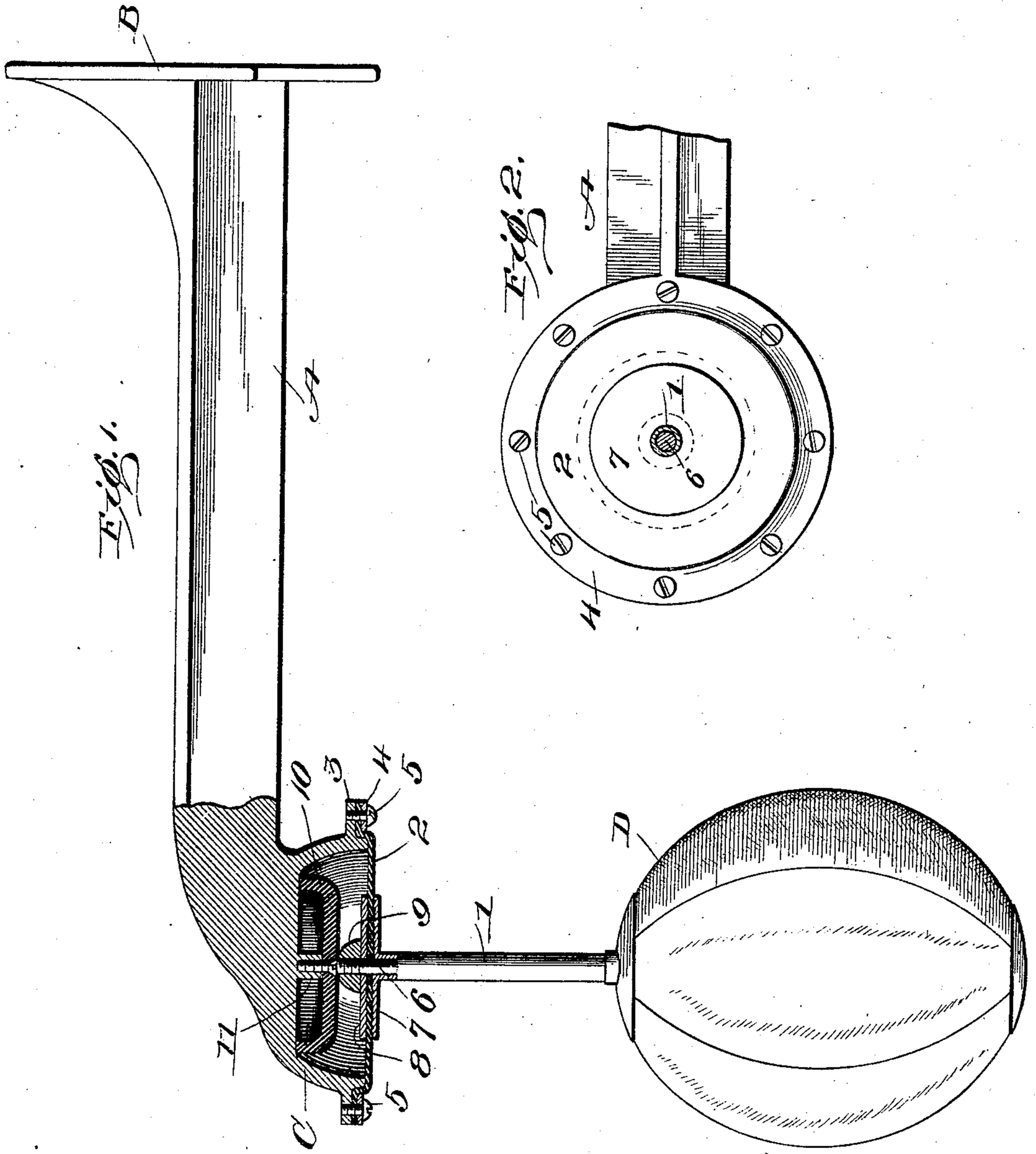

Fig. 1.

Fig. 2.

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UNITED STATES PATENT OFFICE.

GEORGE S. MAXWELL, OF JERSEY CITY, NEW JERSEY, ASSIGNOR OF ONE-HALF TO HENRY D. CRIPPEN, OF NEW YORK, N. Y.

PUNCHING-BAG SUPPORT.

SPECIFICATION forming part of Letters Patent No. 710,113, dated September 30, 1902.

Application filed June 12, 1902. Serial No. 111,340. (No model.)

To all whom it may concern:

Be it known that I, GEORGE S. MAXWELL, residing at Jersey City, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Punching-Bag Supports, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to a punching-bag support, (Case B;) and its object is to provide an improved means for regulating the swing of the bag.

The invention accordingly consists in the features of construction, arrangements of parts, and combinations of elements, which will be hereinafter fully set forth, and the novel features thereof specifically pointed out in the claims at the end of this specification.

In the accompanying drawings, Figure 1 is a side elevation, partly in section, showing a bracket, a bag, a supporting-rod therefor, and the manner of suspending the rod from the bracket. Fig. 2 is a bottom plan view of the bracket, partially broken away, and showing the bag-rod in section.

Similar reference characters refer to similar parts throughout both views.

A is a bracket having a plate B, by which it can by attached to a ceiling, wall, or other desired place. At the end of said bracket is a dome or head C, circular in form and opening downwardly. Bag D is supported by rod 1. Rod 1 is yieldingly held in position by means of the disk 2, of suitable resilient material, preferably rubber, which disk closes the mouth of the dome C and is held in place between the annular flange 3, surrounding the said dome, and the washer 4, screws 5 being provided which pass through the washer, the disk, and the flange. The upper end of the rod 1 is reduced and screw-threaded, as shown at 6, and said reduced end passes through a suitable aperture in the center of the disk 2. Upper and lower clamping-plates 7 and 8 are carried by the rod, one on each side of the resilient disk 2. It is preferable that these clamping-plates have their inner surfaces roughened in order to grasp the resilient disk between them more securely and prevent slipping, and they may be threaded to screw onto the end of the rod or not, as desired. In the illustration they are shown as being held in position between the shoulder where the end of the rod is reduced in section and the nut 9 on the upper end of the rod. The upper surface of said nut is curved or rounded, as shown, in order not to interfere with the movement of the rod in swinging. The movement of the rod is further regulated and yieldingly resisted by means of the buffer 10, which is in the form of a rubber cup seated against the top of the dome in the bracket. As shown, a boss 11 projects downwardly from the top of the dome, and the buffer 10 is held in position by a screw passing through the buffer and into this boss. However, any desired means for retaining the buffer in position may be used.

In operation when the bag is struck the swing of the rod will be yieldingly resisted, because of the distortion of the resilient disk 2 caused thereby, and the latter part of the swing will be further yieldingly resisted and a quick return movement given to the bag, because of the upper plate 8 striking the yielding buffer 10. I have thus provided a construction which does away with all contacting metal parts or joints, which add to the noise in action and interfere with the proper elastic action of the parts. The suspension of the bag is entirely elastic, leaving it free to swing in any desired direction, and the movement of the bag as regulated by the described construction has been found particularly well fitted for its purposes.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a device of the class described, a bracket having a dome in the end thereof, a spring-disk closing the opening of said dome, a bag-supporting rod passing through an aperture in said disk, and a plate carried by said rod adjacent a face of the said disk whereby the swing of said rod will be regulated by the contact between said plate and disk.

2. In a device of the class described, a bracket having a dome in the end thereof, a spring-disk closing the opening of said dome, and a bag-supporting rod passing through an aperture in the center of said disk carrying

clamping-plates one adjacent each face of said disk.

3. In combination, a bracket having a dome C in the end thereof, a disk 2 closing the opening of said dome and secured thereto, and a bag-supporting rod 1 flexibly suspended by said disk by means of clamping-plates 7 and 8 attached to said rod on each side of said disk.

4. In combination, a bracket, a dome in the end thereof, a flexible disk 2 closing the opening of said dome and secured thereto, a bag-supporting rod 1, passing through an aperture in said disk, a plate 8 secured to said rod adjacent the inner face of the said disk, and a buffer located within said dome in position to be engaged by said plates during the swing of said rod.

5. In combination, a bracket A, a dome C on the end thereof, a flexible disk 2 closing the opening of said dome and secured thereto, a bag-supporting rod 1 passing through an aperture in said disk, clamping-plates 7 and 8 secured to said rod one on each side of said disk, and a yielding buffer secured to the top of said dome in position to be engaged by the upper clamping-plate during the latter portion of the swing of the rod substantially as and for the purposes set forth.

6. In a device of the class described, a bracket having a dome in the end thereof, a spring member extending across said dome, a bag-supporting rod passing through an aperture in said spring member, and a plate carried by said rod adjacent a face of said spring member whereby the swing of said rod will be regulated by the contact between said plate and said spring member.

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

GEORGE S. MAXWELL.

Witnesses:

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