May 24, 1955 H. R. KLAUDT 2,709,082

PUNCHING BAG SUPPORT

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Fig. 1.

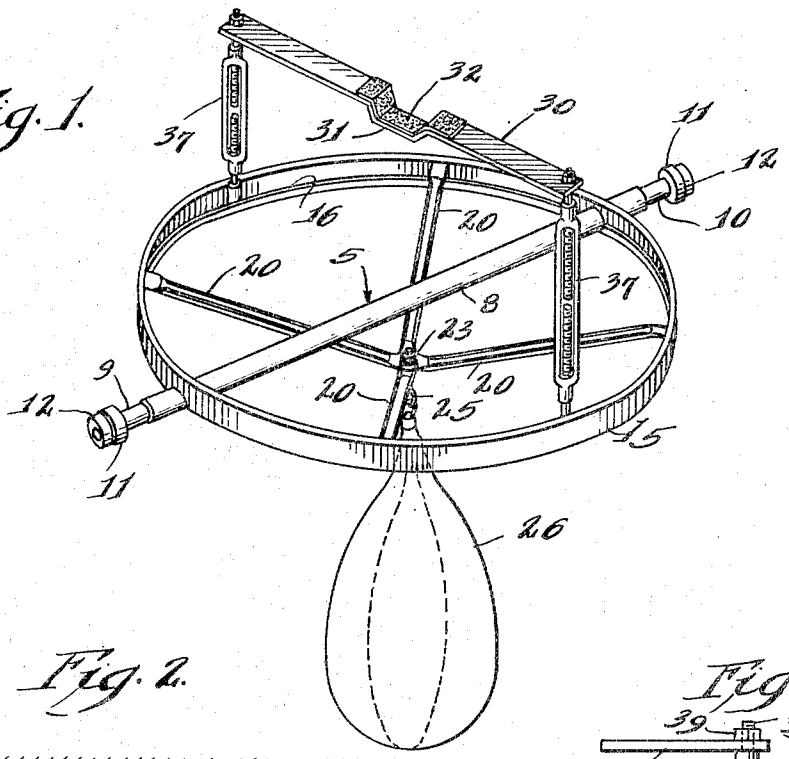


Fig. 2.

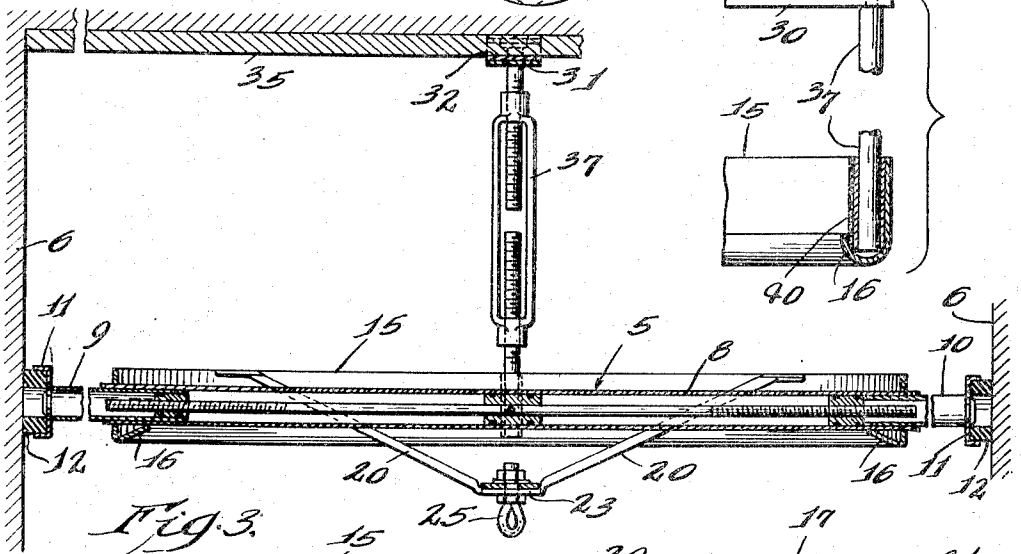
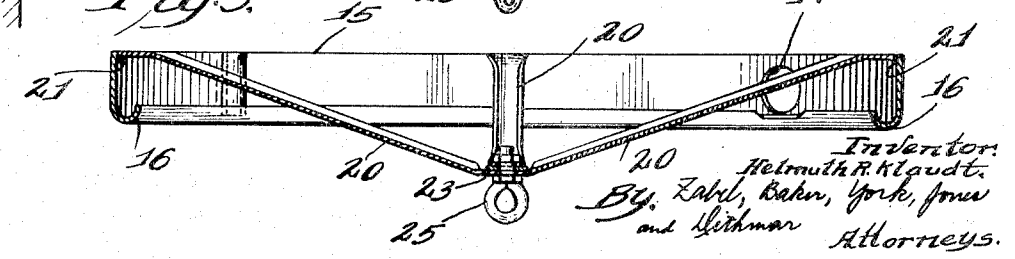


Fig. 4

Fig. 3.



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Fig. 5.

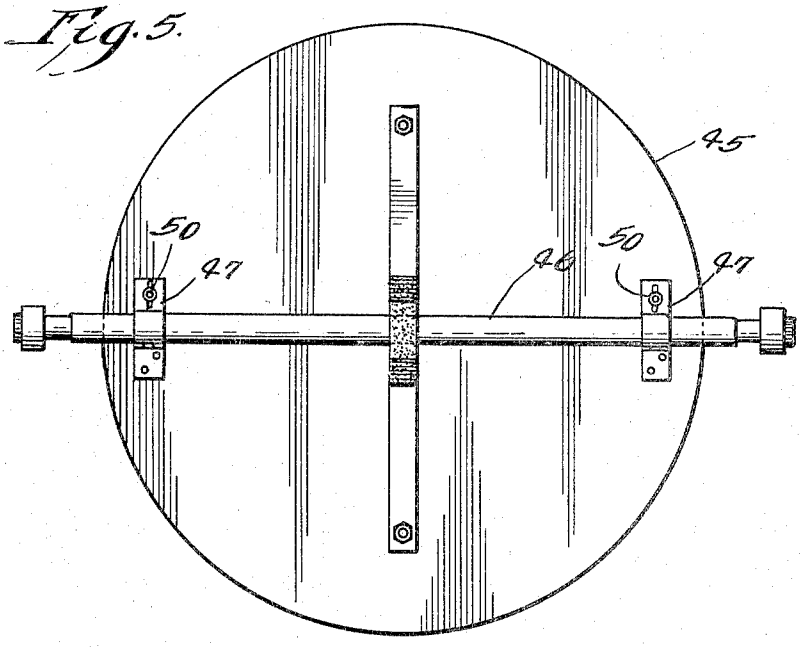
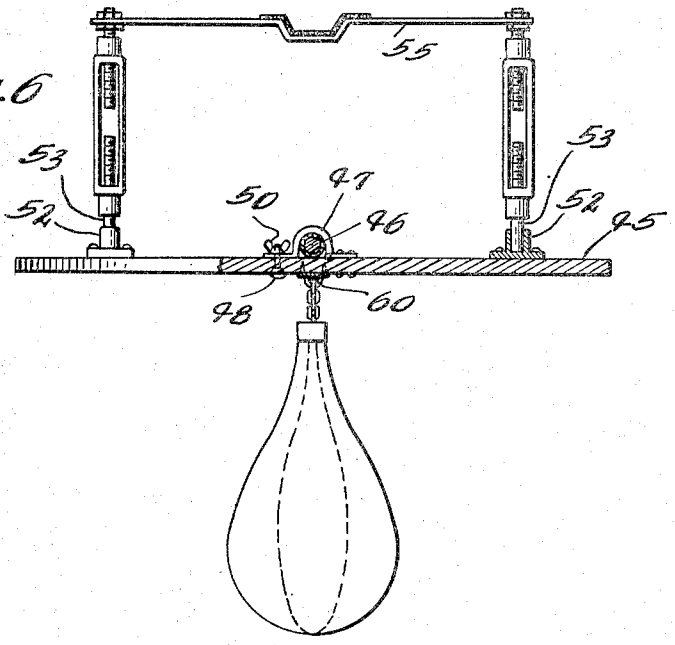


Fig. 6



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PUNCHING BAG SUPPORT

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Application May 7, 1954, Serial No. 428,311

3 Claims. (Cl. 272—78)

My invention relates to a punching bag support, and more particularly to a portable support which may be mounted removably in a doorway opening or the like.

One object of the invention is to provide a portable punching bag support which may be installed with a doorway without making any strutural alterations in the doorway, and without disfiguring same.

Another object of the invention is to provide a portable punching bag support which easily and quickly may be installed in and removed from a doorway.

Another object is to provide a punching bag support of this character which when mounted in a doorway or the like possesses adequate rigidity to resist the strains and impacts developed during use.

Another object is to provide a punching bag support which may be installed in a doorway and which readily is adjustable as to height. Thus the support is usable in doorways of various dimensions.

Another object is to provide a device of this character which has only three points of contact with the frame members of a doorway.

A further object is to provide a punching bag support which uses as one of its parts an exercise or gym bar, a device which has separate utility apart from its use in the present punching bag support.

Still another object of the invention is to provide a device of this character which is inexpensive to manufacture and which is rugged enough to have an indefinitely long, useful life.

Other objects, advantages and details of the invention will be apparent as the description proceeds, reference being had to the accompanying drawings which illustrate two practical embodiments of the invention. It is to be understood, however, that the description and drawings are exemplary only, and that the scope of the invention is to be measured by the appended claims.

In the drawings:

Fig. 1 is a perspective view of a punching bag support constructed in accordance with my invention;

Fig. 2 is a sectional view of the support shown in Fig. 1;

Fig. 3 is a fragmentary sectional view illustrating certain details of the invention;

Fig. 4 is an elevational view, partly in section, showing further details of the invention;

Fig. 5 is a top plan view of a modified form of the invention, and

Fig. 6 is a side elevational view, partly in section, of the form shown in Fig. 5.

Referring to Figs. 1–4 of the drawings, the illustrated punching bag support includes an elongated bar 5 of adjustable length which is adapted to extend horizontally and be wedged between a pair of spaced uprights such as the vertical frame members 6 (Fig. 2) of a doorway. Elongated bar 5 may be and preferably is similar to the gym or exercise bar shown in my U. S. Patent No. 2,637,555, dated May 5, 1953.

Briefly, elongated bar 5 has a centralized, tubular portion 8 and extensible end portions 9 and 10. Each end

portion has a cup shaped end member 11 which carries a friction insert 12 of rubber or the like.

As more fully described in my aforesaid prior patent, elongated bar 5 is mounted horizontally by wedging action between spaced uprights such as the side members of a doorway. Centralized portion 8 of the bar is rotatable to extend end portions 9 and 10 to establish the wedged relationship.

A rebound ring 15 is suitably mounted in a horizontal plane on elongated bar 5, the latter extending diametrically of the ring. In the form of the invention shown, ring 15, which is made of strip stock provided with an inwardly extending lower flange 16 (Figs. 2 and 3), has a pair of diametrically opposed apertures 17. One of the apertures 17 is shown at the right in Fig. 3. Elongated bar 5 extends through apertures 17 in ring 15 as shown in Figs. 1 and 3, centralized portion 8 of the bar terminating at each end beyond the ring periphery.

Rebound ring 15 has a plurality of radial spokes 20, there being four such spokes in the illustrated form of the invention. One end of each spoke 20 is welded or otherwise suitably secured as shown at 21 (Fig. 3) to ring 15. Spokes 20 extend at a downward incline to the central axis of ring 15 where the respective other ends overlap to form a hub 23.

A punching bag holding means 25 is mounted on hub 23 and a punching bag 26 (Fig. 1) is carried by the holding means.

A horizontal stabilizer bar 30 is spaced above elongated bar 5 and it extends generally at right angles thereto as best shown in Fig. 1. Stabilizer bar 30 may have its central portion 31 offset downwardly and covered with felt or the like 32 for reception of and engagement with a fixed member 35 (Fig. 2) which extends horizontally between the spaced uprights 6. In the case of a doorway, fixed member 35 is the frame member at the top of the door opening.

Adjustable length links 37 which may take the form of turnbuckles extend between the ends of stabilizer bar 30 and ring 15. As shown in Fig. 4, the upper end of a link 37 may be reduced in section as shown at 38 to pass through an opening in the adjacent end of stabilizer bar 30. Reduced end 38 is threaded to receive a nut 39 which secures link 37 to bar 30.

The lower end of a link 37 may be received removably in a tubular member 40 which is welded or otherwise suitably secured to ring 15. Thus links 37 and associated stabilizer bar 30 may be disassembled from ring 15 to reduce the size of the support for storage and shipping. When this construction is used, the lower end of link 37 bears on ring flange 16, as shown in Fig. 4.

The punching bag support is installed in a doorway or other opening by first mounting elongated bar 5 with ring 15 mounted thereon at the desired height and wedging it firmly between the spaced uprights. Horizontal stabilizer bar 30 then is placed against the upper frame member of the opening and the links 37 are extended uniformly until the entire device is rigid. The rigidity thus given to the device is more than adequate for the strains and impacts developed during use of a punching bag mounted on the support.

A modified form of the invention is illustrated in Figs. 5 and 6. The main difference between the two forms resides in the substitution of a unitary rebound and bag holding member 45 for the ring 15, spokes 20 and hub 23 of the Figs. 1–4 form. The unitary rebound and bag holding member may be of any suitable material such as plywood, for example.

The Figs. 5 and 6 form of the invention has an extensible, elongated bar 46 which may be of the same type as that illustrated in the first form. Bar 46 is secured to member 45 along an axis of the member by suitable means

such as spaced, hinged clamps **47**. Clamps **47**, as shown, are secured in clamping position by means of respective bolts **48** (Fig. 6) which are provided with wing nuts **50** for convenience in opening and closing the clamps.

Member **45** has a pair of spaced socket members **52** (Fig. 6) secured thereto, the socket members in each case receiving one end of a link **53**. The links **53** preferably include turnbuckles as shown so that the link lengths may be adjusted for different conditions and the installed assembly may be stressed to provide rigidity.

As in the case of the previous form, a horizontal stabilizer bar **55** extends between the two links **53**, the ends of the bar **55** being connected to the link ends. The direction of stabilizer bar **55** is generally at right angles to extensible bar **46**, and the two bars are spaced apart vertically, as shown in Fig. 6.

A punching bag holding means **60** is suitably secured to the underneath face of member **45** in a central location, as shown.

From the above description it is thought that the construction and advantages of my invention will be readily apparent to those skilled in the art. Various changes in detail may be made without departing from the spirit or losing the advantages of the invention.

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

1. A punching bag support comprising an elongated bar of adjustable length adapted to extend horizontally and be wedged between spaced uprights, a rebound ring mounted on said bar in a horizontal plane, said bar extending diametrically of said ring, a hub for said ring, means connecting said hub with said ring, a horizontal stabilizer bar spaced above said elongated bar and extending at right angles thereto, said stabilizer bar being to engage a fixed member extending between said spaced uprights, and adjustable length links respecthively connecting the ends of said stabilizer bar and said ring at points midway between the intersections of said elongated bar and said ring.

2. The combination of claim 1 wherein said ring has an inwardly extending flange and a pair of diametrically opposed, vertically extending tubular members, one end of an adjustable length link being received within a tubular member and bearing on said flange.

3. A punching bag support comprising an elongated bar of adjustable length adapted to extend horizontally and be wedged between spaced uprights, a circular rebound and bag holding member mounted on said bar in a horizontal plane, said bar extending diametrically of said member, a horizontal stabilizer bar spaced above said elongated bar and extending at right angles thereto, said stabilizer bar being adapted to engage a fixed member extending between the spaced uprights, and adjustable length links interconnecting the ends of said stabilizer bar and points on said rebound and bag holding member, said points falling on a diametric line and being located one on each side of and in spaced relation with the center of said rebound and bag holding member.

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