June 9, 1959 M. LEWIS 2,890,049

CONVERTIBLE STRIKING BAG SUPPORT

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Fig. 1.

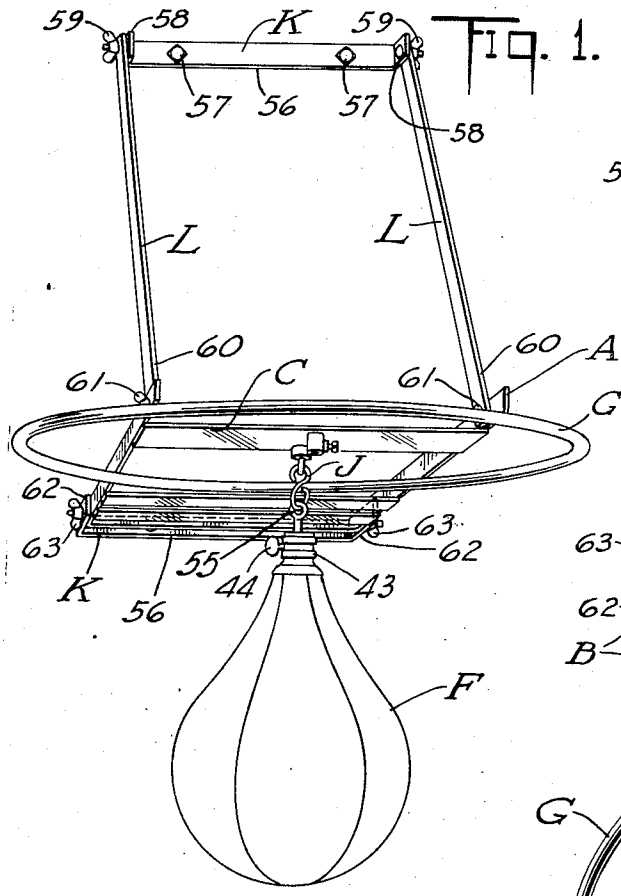


Fig. 2.

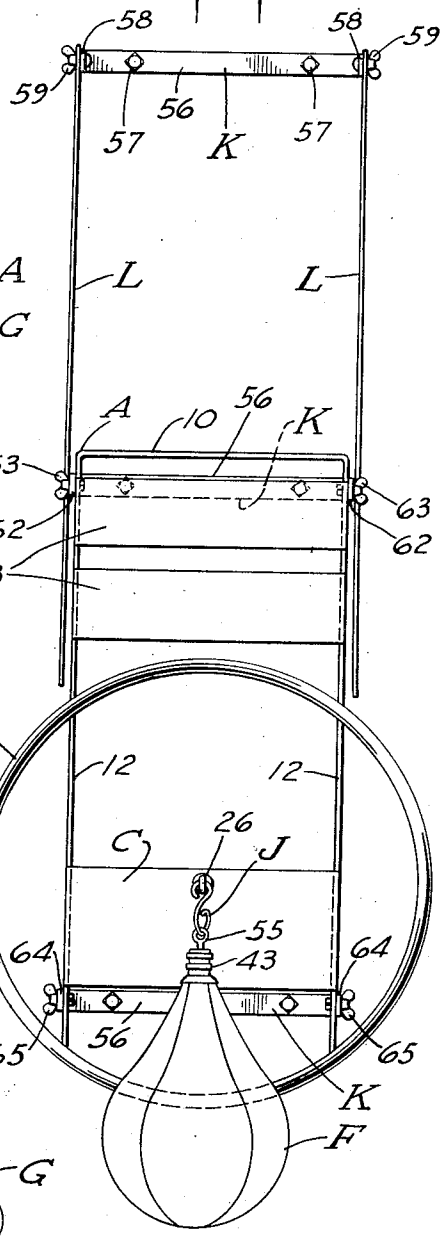
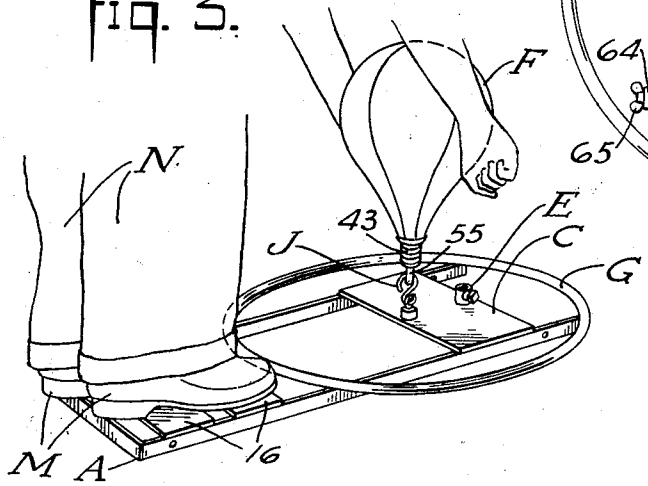


Fig. 3.



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Fig. 4.

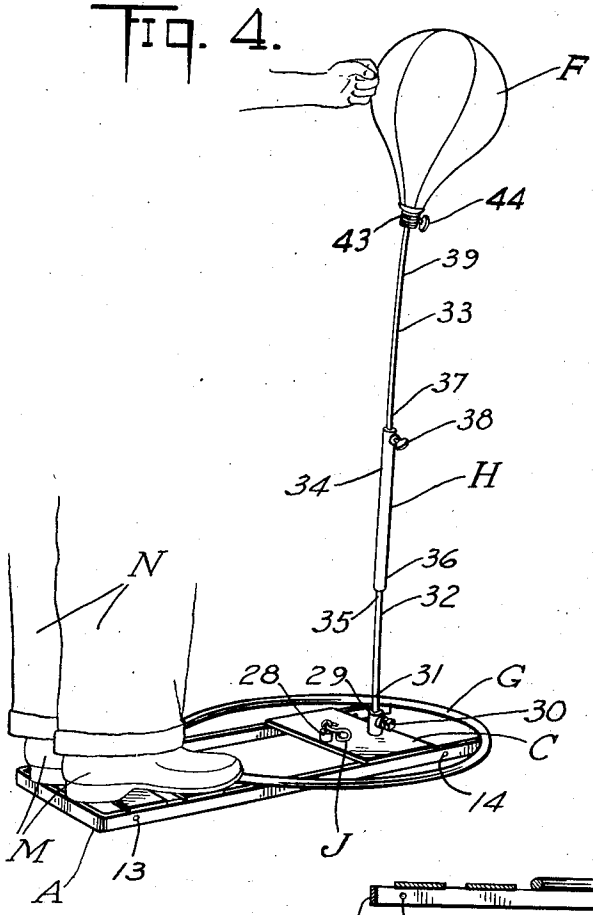


Fig. 6.

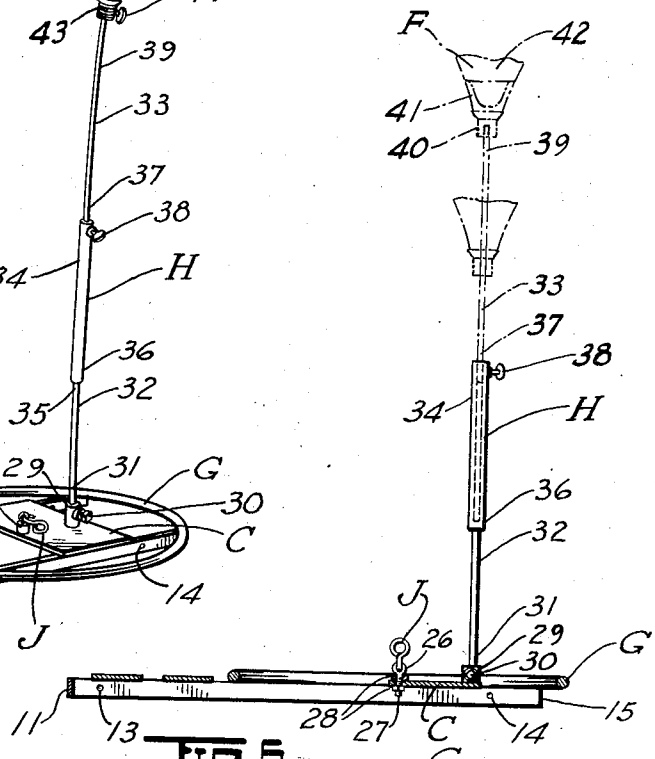


Fig. 7.

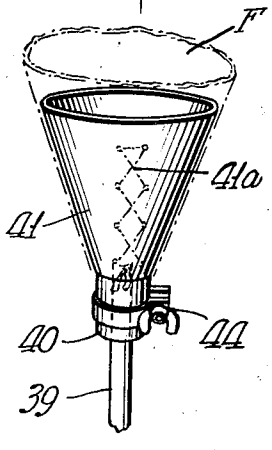
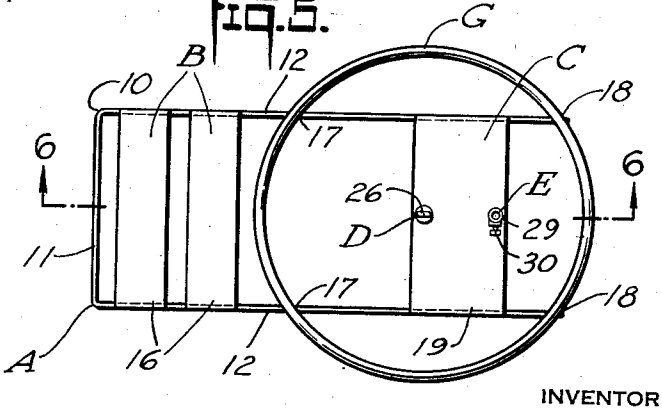


Fig. 5.



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CONVERTIBLE STRIKING BAG SUPPORT

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Application November 18, 1954, Serial No. 469,578

1 Claim. (Cl. 272—78)

The present invention relates to a striking bag outfit.

Although not specifically limited thereto, the present invention will be particularly described in regard to its application to a novel striking bag outfit which may be alternatively placed upon a floor or mounted upon the wall.

It is among the objects of the present invention to provide a solid, durable, readily adjusted and modified striking bag outfit which may be readily converted into different positions and combinations without tools and without special skill.

Another object is to provide a simple, durable, readily modified platform and wall striking bag combination which has alternative platform and wall support, and which may be readily placed upon wall brackets or upon a floor without special operations either on the wall or floor upon each changing or mounting of position.

A further object is to provide an inexpensive, readily transported, assembled and installed four-way striking bag outfit, which will permit exercise of substantially every muscle in the body and which may be readily adjusted from swivel punching bag connection to standing upright position without tools and by a child without instruction or supervision.

Still further objects and advantages will appear in the more detailed description set forth below, it being understood, however, that this more detailed description is given by way of illustration and explanation only and not by way of limitation, since various changes therein may be made by those skilled in the art without departing from the scope and spirit of the present invention.

In accomplishing the above objects, it has been found most satisfactory to form a base platform consisting of U-shaped metal floor structure, one end of which will carry cross plates between the legs of the U for a platform to stand upon, and the other end of which will carry a cross member to support an alternative swivel and upright punching bag mounting arrangement.

To strengthen the platform and to enhance its construction a heavy metal rebound ring is mounted around and encircling the cross members which carry the punching bag mountings.

In the preferred structure, there is supplied with the platform a plurality of U-shaped brackets having short side legs which are mounted permanently upon the wall of the gymnasium, cellar, or outside playground.

These three U-shaped brackets are designed to support the platform when it is mounted in horizontal or vertical position on the wall to carry the punching bag in this position by the swivel connection.

These alternative mounting arrangements are desirably provided by means of bolt and nut connections which fit through and engage registering openings in the side legs of the wall brackets.

The punching bag itself may be of the standard outer envelope with inner rubber bladder type, having a needle valve nipple connection at the end of the bag outside the attachment.

The laced mounting end of the outer bag envelope may be provided with an inserted hollow flare and cone which will enable it to be mounted upon an upright resilient steel mounting for a standing punching position.

As an alternative, the rod may be disconnected from the end of the cone and a swivel eye connected. This swivel eye may in turn be connected to an S-shaped swivel on the cross bar of the platform.

The resilient vertical rod, which is used in upright punching position is desirably of a telescoping sleeve construction with a locking set screw to enable ready adjustment to the height of the child or adult who is using the same.

Important features of the present invention reside in the platform which is a permanent non-articulated structure which does not have to be dismantled.

A further important feature of the present invention resides in the fact that the mounting for the platform when positioned horizontally or vertically upon a wall is permanent and it is not necessary to make repeated mounts or dismounting from the wall itself. This is accomplished by permanently mounted spaced U-wall-brackets, which may be alternatively associated with side legs of the U-frame of the platform by readily removable bolt and nut connections.

A still further important feature of the present invention resides in the vertical, adjustable rod for supporting the bag in an upright position, and which may consist of a central rigid metal sleeve in which the resilient end rod extensions may be telescoped. One of these end rod extensions may be adjustable so as to accommodate the height of the user.

With the foregoing and other objects in view the invention consists of the novel construction, combination and arrangements of parts as hereinafter more specifically described, and illustrated in the accompanying drawings, wherein is shown an embodiment of the invention, but it is to be understood that changes, variations and modifications can be resorted to which fall within the scope of the claim hereunto appended.

In the drawings wherein like reference characters denote corresponding parts throughout the several views:

Fig. 1 is a side perspective view showing the platform mounted horizontally upon two wall brackets with bag suspended from the swivel connection.

Fig. 2 is a front elevational view showing an alternative wall mounting with the platform in vertical position and mounted upon two brackets and the bag suspended from the swivel connection.

Fig. 3 is a top perspective view showing the platform positioned upon the floor with the bag attached in swivel position.

Fig. 4 is a side perspective view showing the platform upon the floor with the bag mounted upon a resilient adjustable rod and standing striking position.

Fig. 5 is a top plane view of the platform.

Fig. 6 is a side sectional view of the platform taken upon the line 6—6 of Fig. 5, showing the upright rod in position therein.

Fig. 7 is a fragmentary side perspective view showing the conical rubber attachment element which is positioned inside and laced inside of the punching bag.

Referring to Figs. 1 to 6 there is shown a platform A having the cross bars or braces B for standing and the cross brace C carrying a swivel connection D and an upright connection E for the punching bag F.

The platform A also carries the reinforcing ring G.

The vertical rod H will support the bag in the position

of Fig. 4, while the S-swivel J will carry the bag in the position of Figs. 1, 2 and 3.

Associated with the device are the U-shaped brackets K—three in number—for supporting the platform A on the wall in the manner shown in Figs. 1 and 2.

Also provided are the side brackets L, which may be used for supporting the platform in the position of Fig. 1.

Referring specifically to Figs. 5 and 6, the platform A has a U-frame **10** with the base **11** and side legs **12**.

The side legs **12** are provided with the openings **13** adjacent to base **11**, and **14** adjacent to ends of the legs at **15**, have associations for mounting wall brackets K.

The two cross members B, which serve as supports for the feet M of the user N, as indicated in Figs. 3 and 4, may be welded in position at their ends **16**.

The ring G may be welded in position at the crossing points **17** and **18** to the side legs **12**.

The cross platform C may be welded in position at **19** to the legs **12**. This will give a rigidity and strength to the construction.

Although the dimensions, size and/or materials may be changed, it has been found that a satisfactory platform may have an over-all length and width of 11" x 26", and that the U-frame **10** may be formed of strip steel 3/16" x 7/8".

The rebound ring G is stationary and may be 18" in diameter and formed of 3/8" solid steed rod.

On the cross bar element C, the swivel connection D is centrally located in respect to the stationary rebound ring G.

This swivel connection consists of a S-swivel J connected to the base eye **26**. The eye **26** has a threaded shank **27** extending through the platform C and held in position by the lock nuts **28**.

The connection E consists of a sleeve **29** which may be welded to the platform C and it has a locking screw **30**.

The sleeve **29** is welded to the platform C to form a cup in which the lower end **31** of the rod H is inserted.

The rod H has two resilient end portions **32** and **33** the ends of which fit into the intermediate sleeve **34**.

The end **35** of the rod **32** may be welded permanently into position to the lower end of the sleeve H; or the rod **32** may be notched and the sleeve H is slid over the notched part of the rod **32** and the metal of rod H is forced under pressure into the notch of rod **32**, making a permanent attachment.

The rod **33** and its lower end **37** may have an adjustable telescoping connection in respect to the sleeve **34**, and it may be held in any desired adjusted position by the lock screw or thumb screw **38**.

The upper end **39** of the rod H may fit into an opening or hole in the rubber solid cylinder **40** which projects downwardly from the mounting cone **41**. The mounting cone **41** fits into the lower portion **42** of the punching bag F. (See Fig. 7.)

The conical member **40** is laced in position inside the bag F as indicated at **41***a* in Fig. 7.

The upper end **39** of the rod is firmly held in position by the clamp **43** which has the clamping screw **44**.

When the bag F is to be connected to the S-swivel J, the clamp **43** is loosened and the end **39** of the rod H is removed.

The shank of the swivel eye **55** is then inserted and clamped into position by the clamp **43**.

Then the S-swivel hook J is engaged in the metal eye **55** so that the bag may be suspended or supported as shown in positions in Figs. 1, 2 and 3.

In connection with the wall mounted arrangement, as shown in Figs. 1 and 2, the three brackets K have the base members **56**, which are apparently mounted on the wall by means of the screws, bolts, or other connections **57**.

The ends of the base **56** are provided with the short legs **58**, which have openings to correspond to the openings **13** and **14** of the platform A.

To support the platform A in the position shown in Fig. 1, two oblique braces L are provided, the top end **58** of which have openings which receive the screws or bolts **59**.

The lower ends **60** of the braces L have openings which are connected by the screw or bolts **61** to the openings **14**.

At the same time the end of the U-frame **10**, adjacent to the base **11** will be inserted between the legs **62** of the bracket K and held in position by means of the bolts **63**. In this manner the platform is suspended horizontally with the bag F, hanging from the swivel connection J, as shown in Fig. 1.

In the alternative arrangement of Fig. 2, the base portion **11** of the platform A is also inserted between the legs **62** of the middle bracket K and held in position by means of the nuts **63**.

The ends of the legs **12** are positioned between the legs **64** of the lowermost bracket K and held in position by the nut **65**.

In this position the oblique braces L may be left in position on the nuts **59** and permitted to hang loosely provided by vertical positioned platform A. Here also the bag F is suspended by the swivel connection J from the eye or ring **26**.

In the position of Fig. 3 the only change from that of Fig. 4 is that the bag is connected to the swivel J and the vertical rod H is removed.

The changing and mounting in the arrangement shown in Figs. 1, 2, 3 and 4 is relatively simple and may be accomplished by a child without special tools or guidance.

The shank of the alternative eye **55** and the end **39** of the rod **33** may be exchanged by loosening the thumb screw **44**, and removing one and inserting the other, as shown in Figs. 1, 4 and 6.

The eye **55** may be readily connected to or dismounted from the S-swivel J.

The three U-shaped wall braces K may be positioned upon the wall and left there without repeated dismounting and assembling.

The oblique braces L may be left in position as shown in Fig. 2 when not in use, and when in use, they may be readily connected as shown in Fig. 1.

The solid rebound ring G not only gives rigidity and strength, but also gives a firm rebound. The platform A is sufficiently rigid to support children or adults, and at the same time it is lightweight so that it may be readily carried about. At no time is it necessary to dismantle the platform and it can be stand considerable abuse as contrasted to articulated plaforms.

The end rods **32** and **33** of the upright rod H give sufficient resiliency at the end and are desirably made of high carbon steel resilient material.

The intermediate sleeve **36** will give additional rigidity which is found to be best in a long resilient support such as indicated at H.

The transit rods **32** and **33** may be of 1/4" diameter. As shown there are two wall positions indicated in Figs. 1 and 2, and two floor positions as indicated in Figs. 3 and 4.

The arrangement as shown is a particularly satisfactory four-way punching bag for children and adults.

The essential novel feature of the present application resides in the rigid base or platform structure A which takes the shape of the U and is formed of a single metal bar bent to form the base **10** and side legs **12**, with the side legs **12** constituting parallel, upright side members (see Figs. 3 and 4).

The base A with its members **10** and **12** constitute an upright vertical structure as shown in Figs. 3 and 4, which is superimposed on the rigid rebound ring G welded to the side legs **12** in four positions at the end

and at intermediate points along the legs 12 (see Fig. 2).

It will be noted that both the base 10 and the legs 12 are upright and vertical in the suspended position of Fig. 1 as well as the floor position of Figs. 3 and 4 with the ring G being closest to the user or closest to the back and in a lower position in Fig. 1 and in an upper position in Figs. 3 and 4. The base 10 constitutes a base upright, vertical, integral, transverse member and the legs 12 constitute parallel, upright, vertical side members.

The plate members B on the outside of the ring G and C on the inside of the ring G are also welded to the side legs 12 and enhance the rigidity of the structure, in addition to respectively forming a support for a person standing on the base and a support for the upright or depending punching bag F.

It will be noted that the ring G is welded adjacent an end of the platform and at four places on opposite sides of the ring.

As many changes could be made in the above striking bag outfit and many widely different embodiments of this invention could be made without departing from the scope of the claim, it is intended that all matter contained in the above description shall be interpreted as illustrative and not in a limiting sense.

Having now particularly described and ascertained the nature of the invention, and in what manner the same is to be performed, what is claimed is:

A base structure for a punching bag for use in the suspension of the bag from an elevated position or to provide a horizontal stand from which the punching bag may be uprightly mounted by a vetrical resilient adjustable length rod, said base structure comprising an elongated U-shaped member of strap form metal and including a pair of spaced parallel legs and a bight portion unitary with the corresponding ends of the legs, and wherein said legs and the bight portion are of greater vertical dimensions than the thickness thereof, a rigid circular open rebound ring of greater diameter than the width of said U-shaped member, said ring being superposed on said legs in symmetrical relation thereto with equal arcs thereof overhanging the opposed legs, said ring being rigidly connected to each leg adjacent the free end thereof and being further rigidly connected to each leg at a point intermediate the free end thereof and said bight portion, a rectangular plate provided with punching bag supporting means disposed within said ring transversely of said legs with its opposite ends rigidly connected thereto, and a pair of rectangular plates disposed transversely of said legs adjacent said bight portion and being rigidly connected to the legs.

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