Aug. 17, 1948. S. TRZESNIEWSKI 2,447,218

BAR BELL

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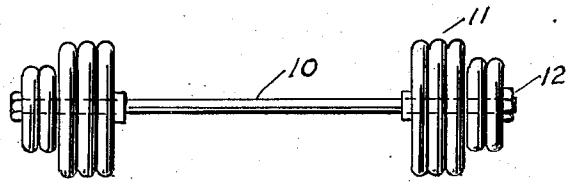
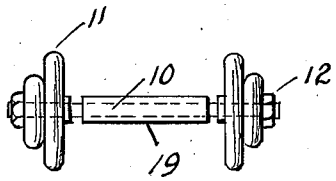


Fig. 1

Fig. 2



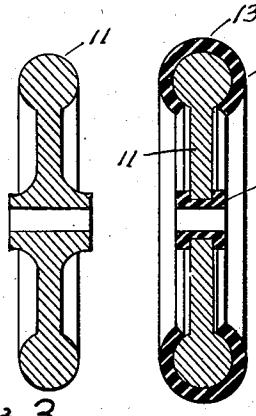
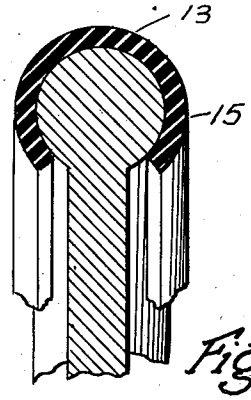


Fig. 4.

Fig. 3



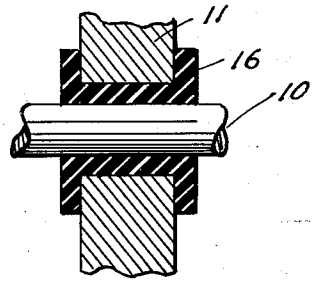


Fig. 6.

Fig. 5.

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BAR BELL

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1 Claim. (Cl. 272—84)

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My invention relates to improvements in bar-bells, dumb-bells and the like used in physical culture, and more particularly to improving the type of weights constituting the device.

The object of my invention is to provide weights that may be individually applied to a bar to vary the combined weight of the entire unit, by applying a plastic or cushion cover to these individual weights at their point of contact, to each other, and at their points of contact with the floor, to prevent metallic noises and clatter caused by the conventional weights contacting one another during their manipulation.

Another object of my invention is to construct the covered weights in a manner to permit varied sizes producing the same result.

A still further object of my invention is to insulate the bore of the individual weights from the metal handle, thereby also cushioning the weights at this point to prevent metallic contact sounds.

Still another object of my invention is to provide a means of obtaining the results outlined above, that may be applied to existing weights as well as being made an integral part thereof.

Other and further objects of my invention will become more apparent as the description proceeds when taken in conjunction with the drawing, in which:

Figure 1 shows a typical bar-bell construction consisting of a plurality of varied sizes of weights mounted on the ends of a horizontal rod.

Figure 2 shows a dumb-bell of similar construction also showing separate weights that may be added or taken from the rod to vary the combined weights of the unit.

Figure 3 is a cross section of a conventional metallic weight to be applied to the bar.

Figure 4 is a cross sectional view of a similar weight, having a cushion cover constructed of rubber or the like around its entire periphery and having a cushion bearing inserted into its center bore.

Figure 5 is a fragmentary, cross sectional view of a portion of the weight, as shown in Figures 4 and 5.

Figure 6 shows the bushing inserted into a weight, as illustrated in Figure 4.

Similar characters of reference indicate corresponding parts throughout the several views, and referring now to the same, the character 10 shows a horizontal bar acting as a shaft onto which a plurality of weights 11 may be mounted. These weights 11, being of varied sizes, permit a variation in the combined weight of the entire unit

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depending on the person manipulating the bar-bell or dumb-bell, and making it possible for him to gradually, as his physical condition improves, add weight to the device.

Obviously, these weights are constructed of metal, and the bar is constructed in a manner to permit the weights being applied and fastened by means of threaded members 12 or in any other conventional manner. However, it is found to be objectionable in many gymnasiums or the like to have the metallic surfaces of the weights contact one another during the manipulation of the device causing a distinct metallic rattle or clatter which is annoying to the other occupants of the gymnasium. It has also been found that in placing bar-bells or dumb-bells onto a hard surface floor, a decided thump or impact is caused. It is with this in mind that I cover the entire peripheral surface of the weight as well as the extending portion of the weights, with a covering 13, which may be inserted over the outer edge of the weight 11, or as shown in Figures 4 and 5 the covering 13, as shown, will permit a cushion contact at the surface 15, thereby preventing the metallic noise referred to above.

Inasmuch as the bar 10 is constructed of metal, I employ a cushion bushing, as shown at 16 in Figures 4 and 6, to be inserted into the bore of the weight 11 where it contacts the bar 10, thereby cushioning the surface of the bore of the weight 11 from the outer periphery of the metallic bar 10.

The bar 10 may be provided with a rubber or plastic covering, as shown at 19 in Figure 2, for the convenience of the operator.

It is manifest to anyone familiar with the art of weight lifting or exercising with dumb-bells that the variation of the weight of the complete unit is beneficial and necessary and that a cushion applied to the individual weights to prevent their contact with one another, and with the bar, thereby eliminating the metallic impact sound would add very materially to the efficiency of the device, also a means of permitting the device to be placed onto a hard surface floor without a definite hard impact is a distinct advantage and eliminates the use of mats during the exercise.

While I have herein shown and described a construction, not previously revealed in the prior art, and have shown a method of employing the construction, I am aware of the fact that there are many changes in the form and configuration of this covering that can be made, and I reserve the right to make such changes as might be deemed convenient and necessary without departing from

the spirit of the invention and the scope of the appended claim.

Having thus described my invention, what I claim and desire to secure by Letters Patent in the United States is:

A device of the character described comprising a plurality of weights, a bar, said bar arranged for supporting said weights, in combination with a removable covering of pliable material having a contour corresponding with the outer surfaces of said weights at their points of contact with one another, and a bushing of pliable material inserted into the bore of said weights at their point of contact with said bar.

STANLEY TRZESNIEWSKI.

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