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GYMNASTIC APPARATUS

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Fig. 1.

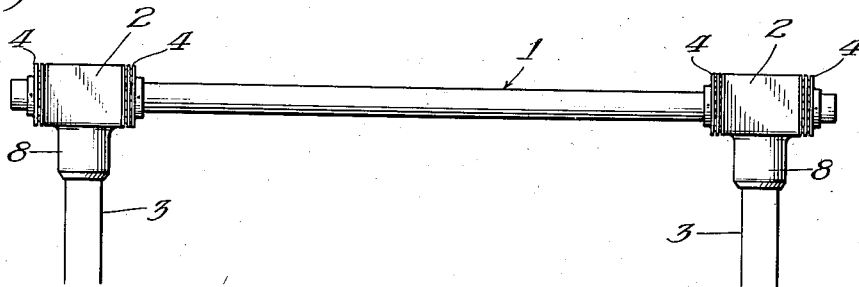
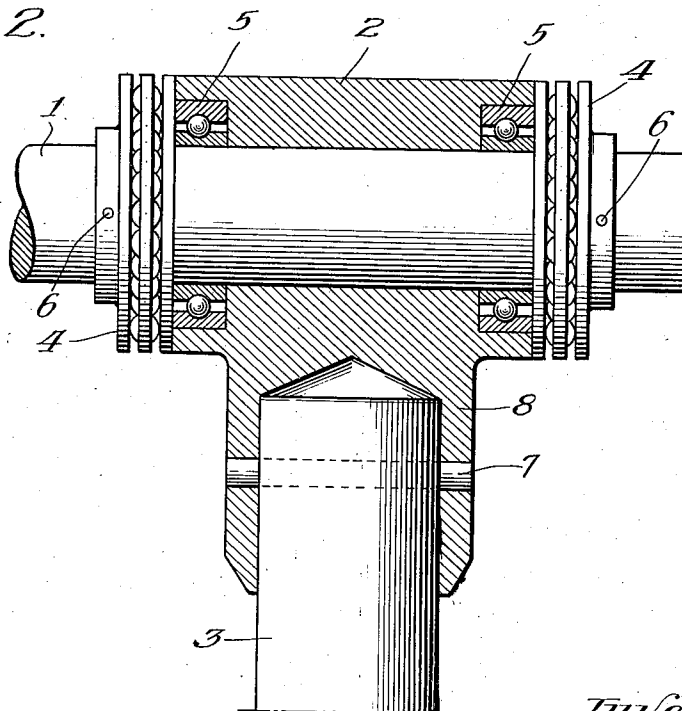


Fig. 2.



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GYMNASTIC APPARATUS

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2 Claims. (Cl. 272—62)

The present invention appertains to new and useful improvements in gymnastic apparatus, and more particularly to a horizontal bar rotatably mounted so that the same will rotate while in use, thus eliminating the friction between the performer's hands and the bar which now occurs in the use of the stationary bar.

An important object of the invention is to provide a horizontal bar which is freely rotatable and which will not bind and cause imperfections to the performer's acts.

Other important objects and advantages of the invention will become apparent to the reader of the following specification.

In the drawing:

Figure 1 represents a fragmentary side elevational view of the bar.

Figure 2 represents an enlarged fragmentary side elevational view of one end portion of the bar showing in section one of the bearing assemblies.

Referring to the drawing, wherein like numerals designate like parts, it can be seen that numerals 3—3 represent upstanding or vertical supporting posts, each of which engages into the depending socket portion 8 of a corresponding horizontally disposed barrel 2. A suitable pin or key 7 secures the socket 8 to the upper portion of the corresponding post 3.

Each end of each of the barrels 2 is counter-bored to receive a ball bearing unit 5 which serves to afford frictional means between the barrel and the horizontal bar 1, which extends through the barrels 2, to take care of radial thrust.

To take care of longitudinal thrust, each end portion of the horizontal bar 1 is provided with a thrust plate 4 at each end of the corresponding sleeve 2 and interposed between each of these thrust plates 4 and the corresponding end of

the barrel 2 is an annular ball bearing assembly which takes up friction between the said thrust plate and barrel.

Thus, it can be seen that the horizontal bar 1 is free to rotate at all times without any chance of binding and without any likelihood of longitudinal movement in view of the fact that both radial and longitudinal thrust is taken up at the barrels 2.

While the foregoing specification sets forth the invention in specific terms, it is to be understood that numerous changes in the shape, size, and materials may be resorted to without departing from the spirit and scope of the invention as claimed hereinafter.

Having described the invention, what is claimed as new is:—

1. A gymnastic apparatus comprising a pair of uprights, a T-shaped fitting at the upper end of each upright, the depending portion of each T-fitting being provided with a socket for receiving the upper end of the corresponding upright, a horizontal bar, the horizontal portions of said T-shaped fittings being provided with longitudinal bores defining bearings for rotatably receiving the end portions of said horizontal bar.

2. A gymnastic apparatus comprising a pair of uprights, a T-shaped fitting at the upper end of each upright, the depending portion of each T-fitting being provided with a socket for receiving the upper end of the corresponding upright, a horizontal bar, the horizontal portions of said T-shaped fittings being provided with longitudinal bores rotatably receiving the end portions of said horizontal bar, and a pair of thrust collars secured to each end portion of the bar, one at each end of the horizontal portion of the corresponding fitting.

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