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GYMNASIUM APPARATUS.
APPLICATION FILED APR. 30, 1908.

907,075.

Patented Dec. 15, 1908.

Fig. 1.

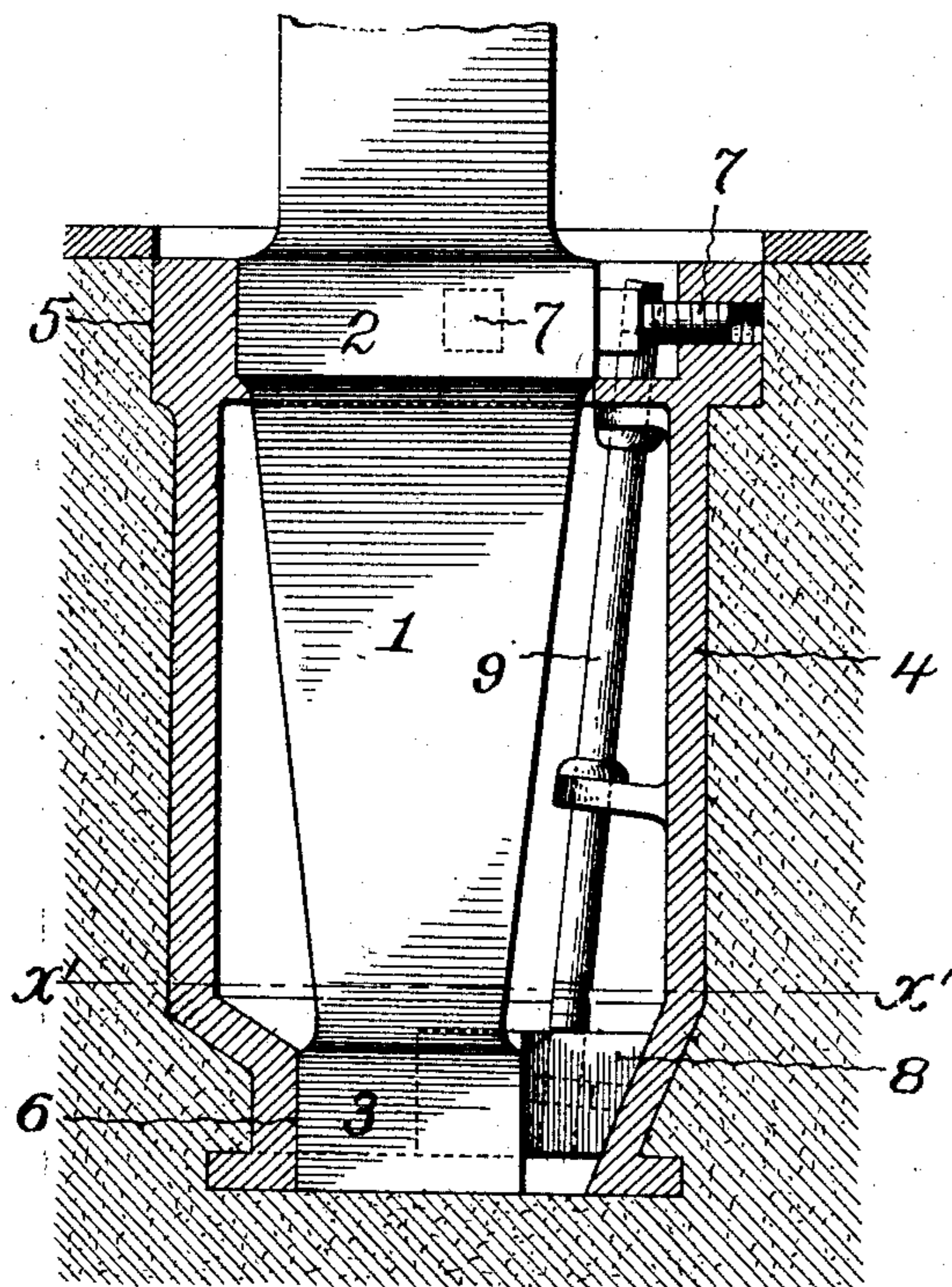


Fig. 3.

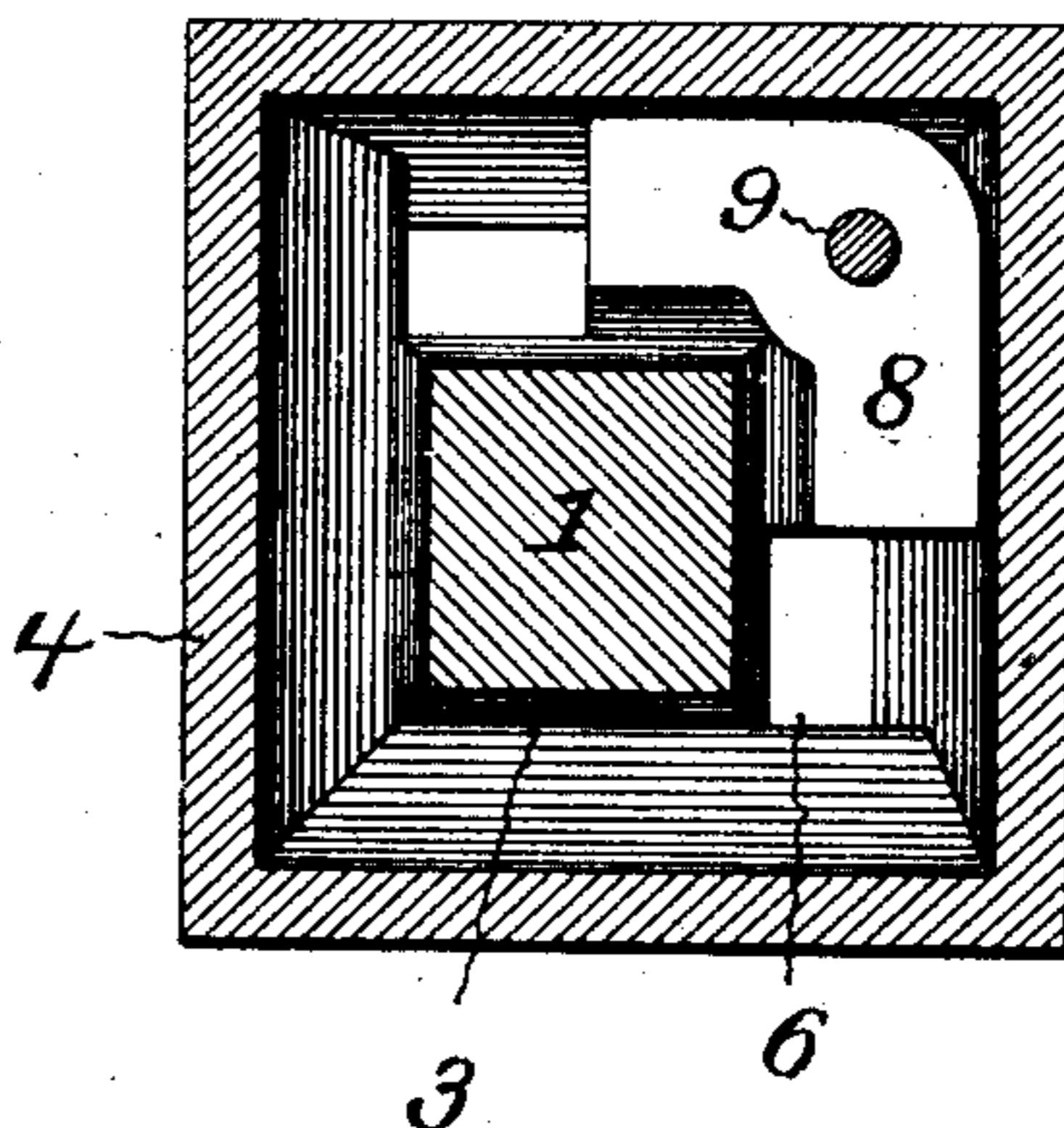


Fig. 4.

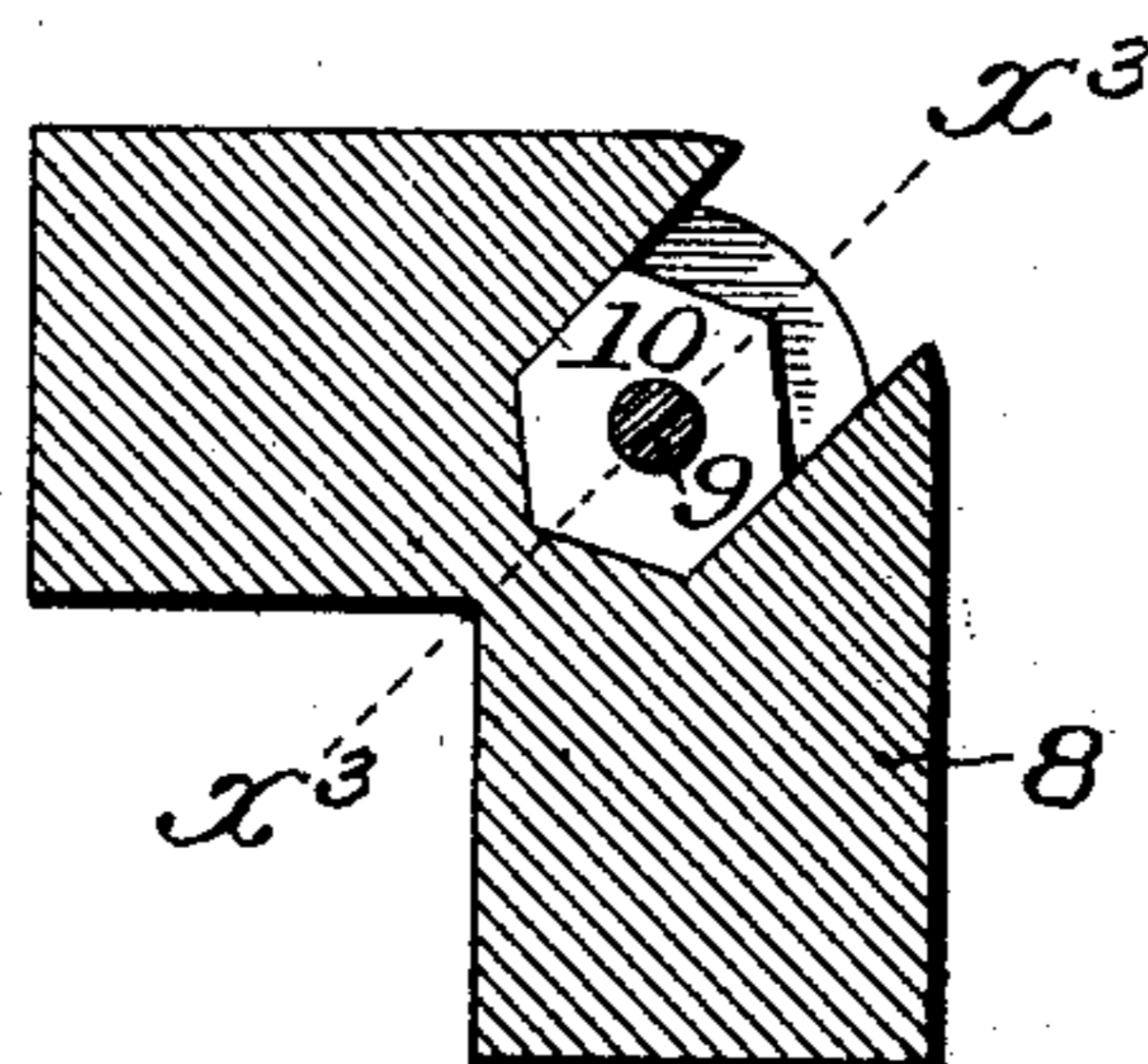


Fig. 2.

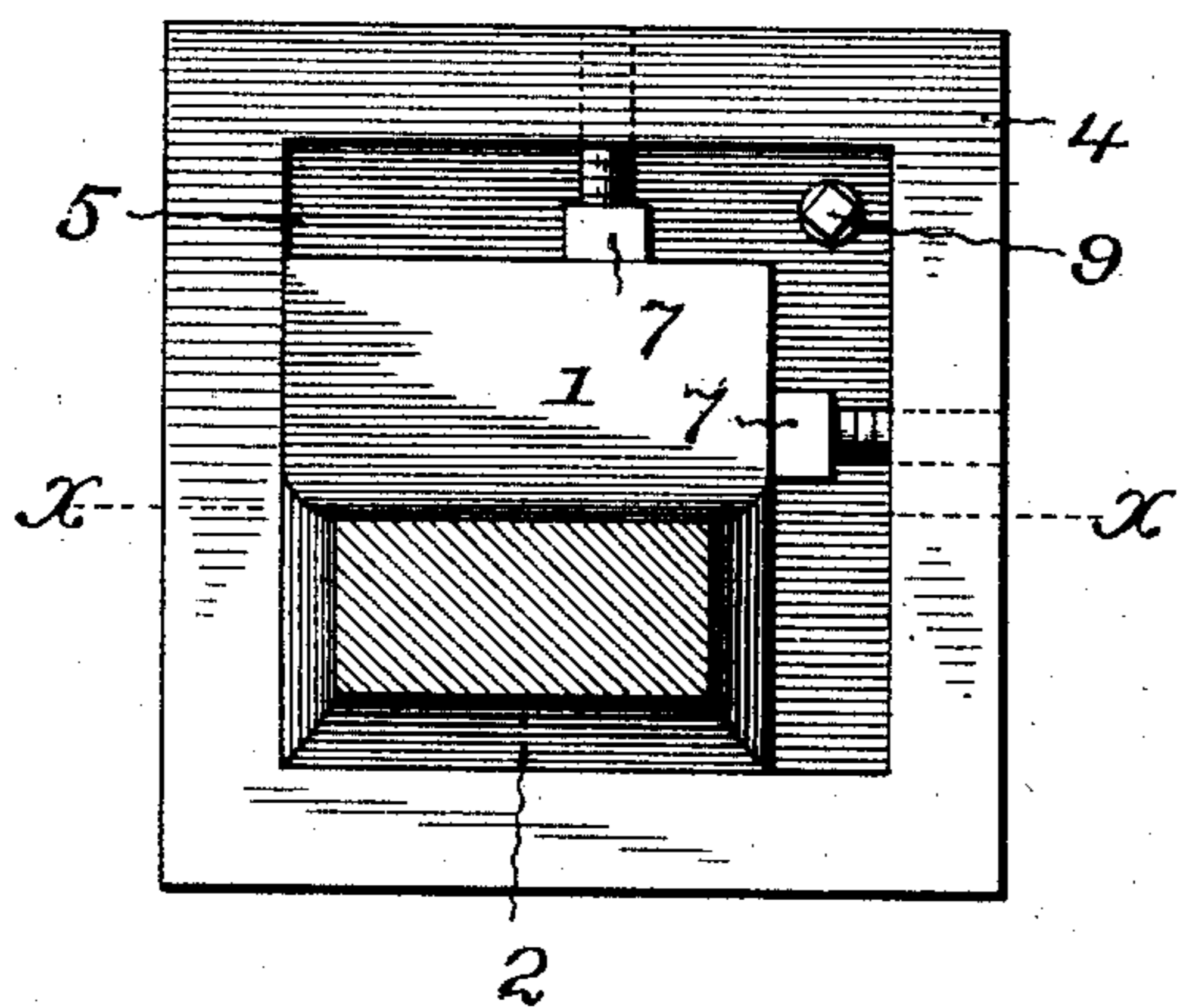
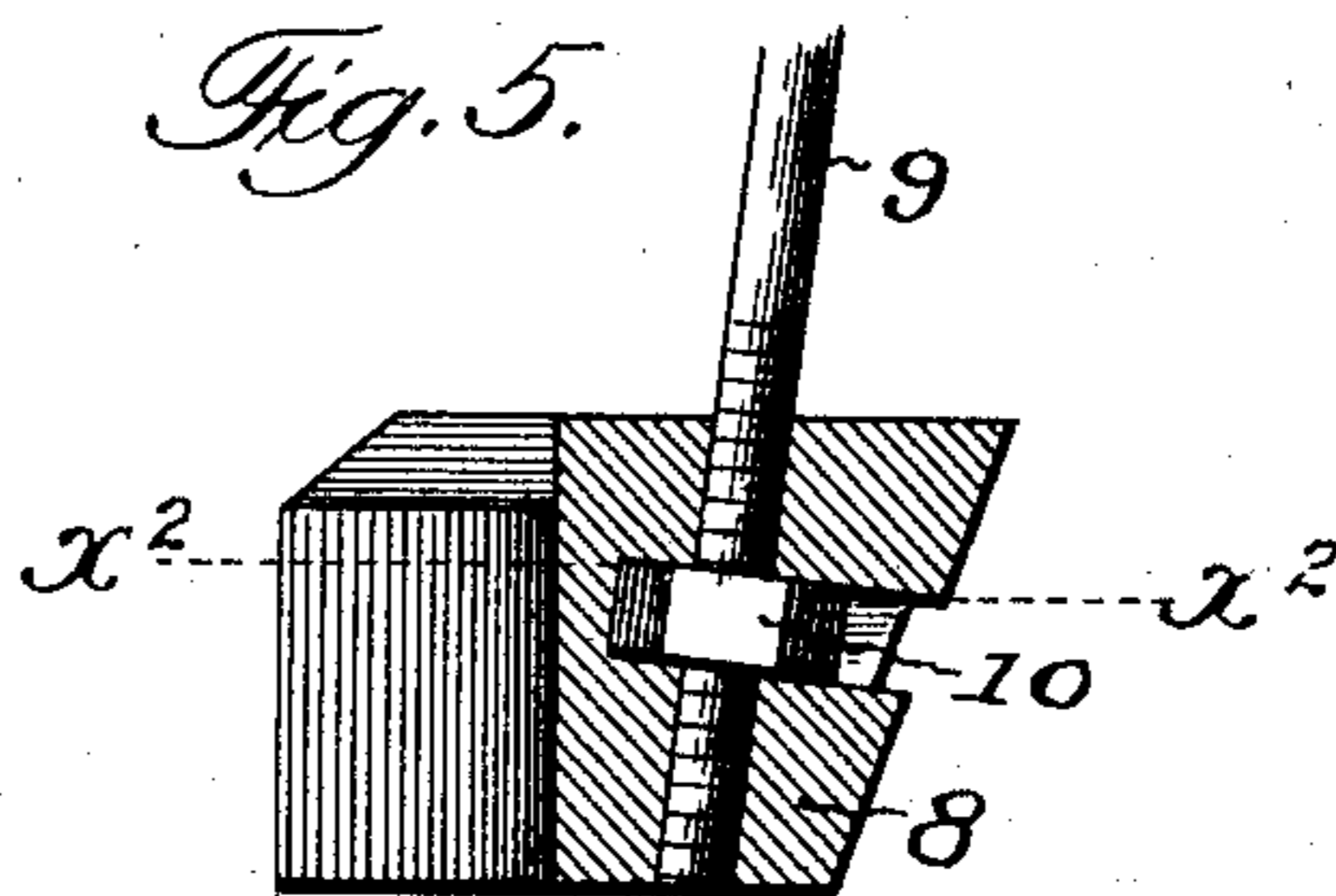


Fig. 5.



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GYMNASIUM APPARATUS.

No. 907,075.

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To all whom it may concern:

Be it known that I, FREDERICK MEDART, a citizen of the United States of America, and a resident of St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Gymnasium Apparatus, of which the following is a specification.

This invention relates to that class of gymnasium apparatus in which provision is made for securing the same in a removable manner to the gymnasium floor. And the present improvement has for its object to provide a simple and substantial structural formation and combination of parts whereby the vertical supporting posts of the apparatus are readily and firmly attached to the floor and in a manner which permits of a ready and easy detachment when required, all as will hereinafter more fully appear.

In the accompanying drawings:—Figure 1, is a detail vertical section on line $x-x$, Fig. 2, is a horizontal plan with post in section. Fig. 3, is a horizontal section on line $x'-x'$, Fig. 1. Fig. 4, is a detail horizontal section of the wedge piece, on line x^2-x^2 , Fig. 5. Fig. 5, is a detail vertical section of the same on line x^3-x^3 , Fig. 4.

Similar numerals of reference indicate like parts in the different views.

Referring to the drawings, 1 represents the lower or base portion of a leg or post for a pair of horizontal bars or like gymnasium apparatus, formed with upper and lower bearing portions 2 and 3, arranged in spaced relation, and preferably with the lower bearing portion 3 of a smaller size than the upper portion, as shown.

4 is the hollow socket member having a flanged and otherwise suitably formed exterior, adapting the same for permanent attachment in the floor of a gymnasium, which floor is usually formed of concrete or like cementitious material. At its upper end said socket is formed with a rectangular cavity or recess, the vertical walls of which form a seat for the correspondingly formed bearing portion 2 of the post or leg 1, and at the lower end with a similar rectangular cavity 6, two of the walls of which constitute a vertical seat for the correspondingly formed bearing portion 3 of the leg or post aforesaid, while the other two walls of said cavity form an inclined seat for the clamping wedge member hereinafter described.

7 are screw-bolts screwing into the walls of the recess or cavity 5, of the socket member, and arranged in right-angle relation and with their inner or head portions bearing against two sides of the bearing portion 2 of the post or leg 1, as shown. As so arranged the bolts are adapted to force the other sides of the bearing portion 2 of the post or leg against corresponding surfaces of the socket recess 5 to secure the upper end of the base portion of the leg or post 1 firmly to the socket member 4.

8 is the clamping wedge member, heretofore referred to, and which is of an ell form having inner vertical faces adapted to bear against a corner portion of the lower bearing portion 3 of the post or leg 1; and outer inclined faces adapted to have bearing against the inclined seat formed therefor in the socket member by the inclined walls of the lower cavity 6 above described. As so arranged a downward thrust of the wedge member is adapted to force the extreme lower end of the post or leg 1 laterally against the vertical walls of the cavity 6 to secure such lower post end firmly in place.

9 is a screw-shaft journaled in a vertical position in the chamber of the hollow socket member 4, with its upper end having a square or other equivalent non-circular form adapted for ready engagement with an operating handle or wrench. Such end of the shaft is on a plane adjacent to the upper end of the socket member for convenient access and manipulation. The lower and screw-threaded end of said shaft has operative engagement with a screw-threaded formation on the wedge member 8 aforesaid, and so that a turning movement of the screw shaft will cause a positive movement of the wedge member in an up or down direction in accordance with the turning of said shaft to the right or to the left.

In the preferred construction shown, the side of the wedge member 8 is recessed out to form a receiving cavity for a separate nut 10, which in turn is held in place by its engagement with the screw shaft, as shown, and affords a simple and effective manufacture of parts and an economical replacement of a broken or defective part.

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

1. In a gymnasium apparatus, a hollow

socket member adapted for attachment in a floor and provided with upper and lower bearing cavities, a leg or post having upper and lower bearing portions, screw bolts in angular relation in the walls of the upper cavity and bearing against the upper bearing portion of the post, a wedge member interposed between the lower cavity of the socket member and the lower portion of the post, and means extending from the upper end of the socket member for imparting movement to said wedge member, substantially as set forth.

2. In a gymnasium apparatus, a hollow socket member adapted for attachment in a floor and provided with upper and lower rectangular bearing cavities, a post or leg having upper and lower rectangular bearing portions, screw-bolts in angular relation in the walls of the upper cavity and bearing against the upper bearing portion of the post, a wedge member interposed between the lower cavity of the socket member and the lower portion of the post and having an ell shape, and means extending from the upper end of the socket member for imparting movement to said wedge member, substantially as set forth.

3. In a gymnasium apparatus, a hollow socket member adapted for attachment in a floor and provided with upper and lower bearing cavities, a leg or post having upper and lower bearing portions, screw bolts in angular relation in the walls of the upper cavity and bearing against the upper bearing portion of the post, a wedge member interposed between the lower cavity of the socket member and the lower portion of the post, and an upright screw shaft journaled in the cavity of the socket member and having a screw-threaded lower end in operative engagement with the wedge member, substantially as set forth.

4. In a gymnasium apparatus, a hollow socket member adapted for attachment in a floor and provided with upper and lower rectangular bearing cavities, a post or leg having upper and lower rectangular bearing portions, screw-bolts in angular relation

in the walls of the upper cavity and bearing against the upper bearing portion of the post, a wedge member interposed between the lower cavity of the socket member and the lower portion of the post and having an ell shape, and an upright screw-shaft journaled in the cavity of the socket member and having a screw-threaded lower end in operative engagement with the wedge member, substantially as set forth.

5. In a gymnasium apparatus, a hollow socket member adapted for attachment in a floor and provided with upper and lower bearing cavities, a leg or post having upper and lower bearing portions, screw bolts in rectangular relation in the walls of the upper cavity and bearing against the upper bearing portion of the post, a wedge member interposed between the lower cavity of the socket member and the lower portion of the post, a separate nut arranged in a side cavity of the wedge member, and an upright screw shaft journaled in the cavity of the socket member and having a screw-threaded lower end in operative engagement with said nut, substantially as set forth.

6. In a gymnasium apparatus, a hollow socket member adapted for attachment in a floor and provided with upper and lower rectangular bearing cavities, a post or leg having upper and lower rectangular bearing portions, screw-bolts in angular relation in the walls of the upper cavity and bearing against the upper bearing portion of the post, a wedge member interposed between the lower cavity of the socket member and the lower portion of the post and having an ell shape, a separate nut arranged in a side cavity of the wedge member, and an upright screw shaft journaled in the cavity of the socket member and having a screw-threaded lower end in operative engagement with said nut, substantially as set forth.

Signed at St. Louis, Missouri, this 27th day of April 1908.

FREDERICK MEDART.

Witnesses:

WALTER RICHARDSON,
E. J. MEDART.