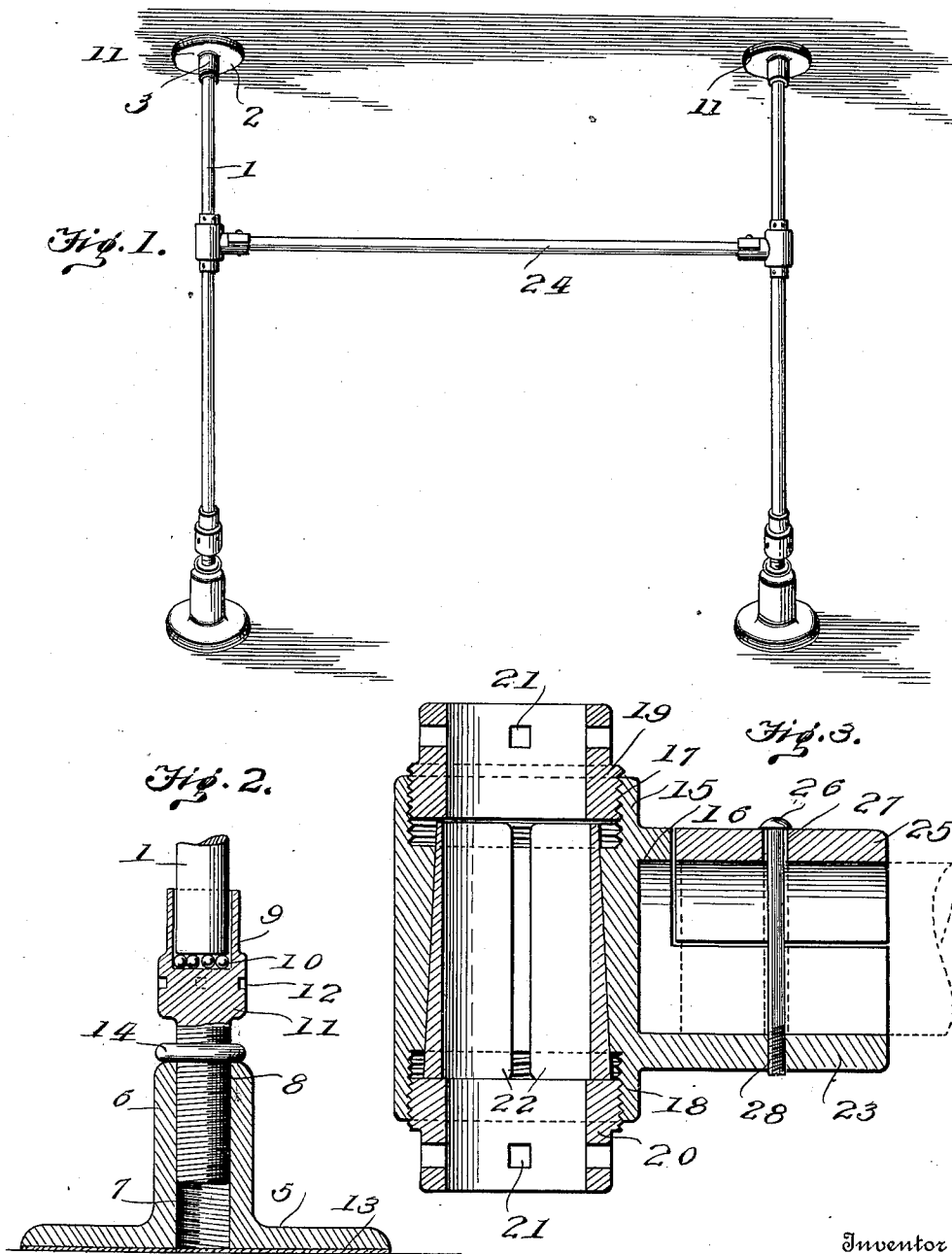


C. G. ROSENBERGER.
GYMNASTIC APPARATUS.
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GYMNASTIC APPARATUS.

1,085,486.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES G. ROSENBERGER, citizen of the United States, residing at Savannah, in the county of Wayne and State of New York, have invented certain new and useful Improvements in Gymnastic Apparatus, of which the following is a specification.

This invention relates to gymnastic apparatus and is designed more particularly as an improvement on the apparatus shown in my co-pending application Serial Number 711,851, filed July 27, 1912.

It is one aim of the invention to provide a novel means for supporting the ends of the horizontal bar or trapeze bar of the apparatus upon the uprights, the means permitting of vertical adjustment of the bar to any desired height.

The invention further aims to so construct the uprights of the apparatus, that while they may be adjusted as to length so as to bear at their ends against the floor and ceiling of the room in which the apparatus is arranged, adjustment of the horizontal bar supporting members upon the uprights will not be interfered with.

For a full understanding of the invention reference is to be had to the following description and accompanying drawing, in which:—

Figure 1 is a perspective view of the apparatus embodying the invention. Fig. 2 is a detail vertical sectional view through the lower portion of one of the uprights. Fig. 3 is a vertical sectional view in detail through one of the supports for the horizontal bar.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawings by the same reference characters.

In the drawing, the apparatus is illustrated as including a pair of spaced uprights between which the horizontal bar or trapeze bar extends. Each of these uprights is indicated in the drawing by the numeral 1 and each is provided at its upper end with a head 2 having a socket 3 receiving said upper end of the upright. Each head 2 is provided upon its upper side with a facing 4 of felt or any other like material which will prevent injury to the ceiling against which the head is disposed, and which will also enable the head to bear more firmly against the ceiling.

Each upright 1 is supported at its lower end by a base which includes a flat body portion 5 having an upstanding sleeve 6 interiorly threaded as at 7. A stem 8 is adjustably threaded into the sleeve in the manner shown in Fig. 2 and is provided at its upper end with a socket 9 receiving the lower end of the uprights 1. A number of balls 10 are arranged in the bottom of the socket 9 and provide for free rotative movement of the stem 8, although the uprights may have a firm bearing in the said socket.

In order that the stem 8 may be rotated and thereby adjusted, it is provided below its socket 9 with a head 11 having a number of sockets 12 for the engagement of a spanner-wrench. The base 5 is provided on its under side with a facing 13 of felt, or the like, designed to prevent injury to the floor surface upon which the base is disposed. In order that the stem 8 may be held at adjustment, a lock collar 14 is threaded adjustably onto the stem and is arranged to bear at the upper end of the sleeve 6, as illustrated in Fig. 2. At this point it will be understood that by engagement of the spanner-wrench with the head 11, the uprights may be adjusted so that its head 2 and base 5 will bear firmly against the ceiling and floor, respectively.

Each of the members mentioned above for supporting the ends of the horizontal bar includes a sleeve 15 which is interiorly tapered in the direction of its upper end as indicated at 16 and at its upper and lower ends is interiorly threaded as at 17 and 18, respectively.

A collar 19 is threaded into the upper end of the sleeve 15 and a similar collar 20 is threaded into the lower end thereof, the collars having portions projecting respectively above and below the respective ends of the sleeve and in their projecting portions being formed with openings 21 for the engagement of the spanner-wrench, whereby the collars may be rotated and thereby adjusted in the sleeve. Arranged within the sleeve 15 is a binding sleeve consisting of two or more sections 22 which are interiorly cylindrical and exteriorly conical.

By referring to Fig. 3 of the drawing it will be observed that upon movement of the binding sections 22 upwardly within the sleeve 15, they will be caused to approach each other and thereby bind firmly against the upright 1 which they embrace,

and it will also be observed from inspection of this figure that the lower or major ends of the said sections 22 rest upon the upper end of the collar 20 so that by threading this collar into the lower end of the sleeve the sections will be forced upwardly for the purpose stated. In this manner, the supporting member as a whole may be secured at any point of its adjustment upon the respective upright. The collar 19 is provided for the purpose of forcing the binding sleeve sections 22 downwardly and out of binding engagement with the respective upright 1, when it is desired to adjust the supporting device and after the collar 20 has been unthreaded for a short distance. Projecting laterally from the sleeve 15 is the fixed member 23 of a socket in which the end of the horizontal bar 24, is received. This member of the socket is substantially semi-cylindrical and has its concave side presented upwardly and the socket is encircled by a cap-member 25 which is also substantially semi-cylindrical and which is disposed upon the upper side of the bar 24 after the end of the bar has been fitted into the member 23.

The sections of the socket are held assembled by a screw 26 inserted through the opening 27 in the member 26 and threaded into the opening 28 in the member 23, this screw passing also through an opening formed in the end of the bar 24.

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

1. In a supporting structure, an upright, a support adjustably mounted thereon and including a sleeve interiorly tapered, tapered binding members arranged within the sleeve, and a collar adjustably threaded into the sleeve and bearing against the major ends of the binding members.

2. In a supporting structure, an upright, a support adjustably mounted thereon and including a sleeve interiorly tapered in the direction of its upper end, binding members arranged within the sleeve and exteriorly tapered in the direction of their upper ends, and a collar adjustably threaded into the lower end of the sleeve and bearing

against the major ends of the binding members.

3. In a supporting structure, an upright, a support adjustably mounted thereon and including a sleeve interiorly tapered, tapered binding members arranged within the sleeve, and a collar adjustably threaded into each end of the sleeve, one of the collars being arranged to bear against the binding members at one end and the other collar being arranged to bear against the said members at the opposite end.

4. In a supporting structure, an upright, a support adjustably mounted thereon and including a sleeve interiorly tapered, tapered binding members arranged within the sleeve, and collars adjustably threaded into the sleeve in the opposite ends thereof and bearing against the said members at their opposite ends.

5. In a supporting structure, an upright, a support adjustably mounted thereon and including an interiorly tapered sleeve, tapered binding members arranged within the sleeve and adjustable longitudinally of the wall thereof whereby to bind the upright embraced thereby, and means for adjusting the said binding members.

6. In a supporting structure, an upright, a support mounted thereon and including a sleeve interiorly tapered, binding sleeve sections fitted within the sleeve and exteriorly conical, and collars adjustably threaded into opposite ends of the sleeve and bearing against the opposite ends of the binding sleeve sections.

7. In a supporting structure, an upright, a support mounted thereon and including a sleeve, the sleeve having a fixed socket member projecting laterally therefrom and having a concave upper side, a socket member removably assembled with the fixed socket member, and means connecting the said members.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES G. ROSENBERGER. [L. S.]

Witnesses:

Mrs. ARTHUR HANNA,

Mrs. C. G. ROSENBERGER.