July 14, 1925.

1,545,528

C. T. STEVENS ET AL

EXERCISER

Filed Nov. 27, 1922

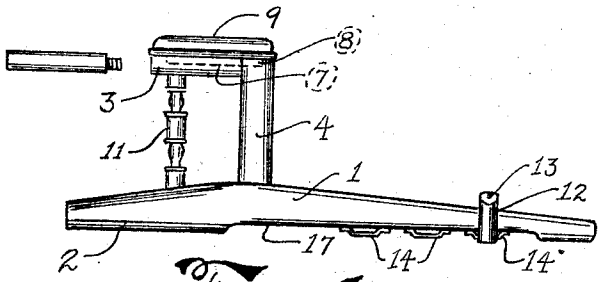


Fig. 1

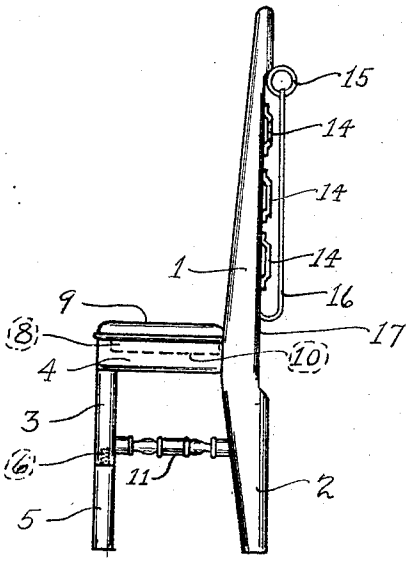
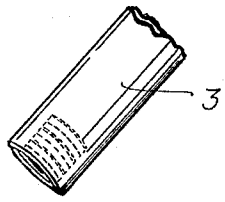


Fig. 2



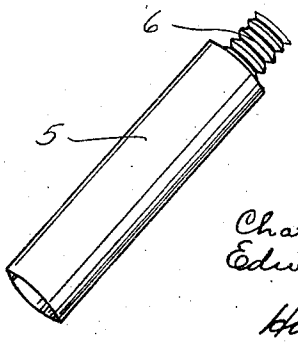


Fig. 3

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UNITED STATES PATENT OFFICE.

CHARLES T. STEVENS AND EDWIN S. DELAPLANE, OF ST. LOUIS, MISSOURI, ASSIGNORS, BY MESNE ASSIGNMENTS, TO ATHLETIC HEALTH CHAIR COMPANY, OF ST. LOUIS, MISSOURI, A CORPORATION OF MISSOURI.

EXERCISER.

Application filed November 27, 1922. Serial No. 603,570.

To all whom it may concern:

Be it known that we, CHARLES T. STEVENS and EDWIN S. DELAPLANE, citizens of the United States, residing at the city of St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Exercisers, of which the following is a specification.

This invention is an improvement of the subject-matter of the patent to William E. Lauer for exerciser filed August 18, 1921, Patent No. 1,456,317. It is to be understood that the device herein shown and described can be used in the same manner as the device illustrated and described in the said Lauer patent, but that the construction herein shown and described embodies improvements thereover.

In the accompanying drawings forming part of this specification, in which like numbers of reference denote like parts wherever they occur,

Figure 1 is a side elevation of this device when arranged to be used as an exerciser;

Figure 2 is a side elevation thereof when set up as a chair; and

Figure 3 is a fragmentary perspective view showing the sections of a front leg.

While useful for the purposes set forth in the said Lauer patent, this device is more or less in the way in small apartments, and in the plain form shown in the said Lauer patent, may be so unornamental as to be unwelcome in the ordinary living rooms of a home. The principal object of the present invention is to provide the Lauer apparatus with an ornamental form, so that it can be kept in any living room, and also so to construct that device that it will be useful as a chair when not in use as an exerciser.

Further features of invention are found in the necessary alteration of structure to accomplish the aforesaid purposes and in the addition of exerciser rings, the use of which is made possible with this device by reason of the addition to the Lauer device of the chair feature.

All the parts of this device are formed, shaped, and finished in such a manner as to constitute the same when set up as a chair a beautiful and ornamental piece of furniture having all the appearance of a high-class chair, the alternative use of which can not be detected from a front view of the chair and which can hardly be suspected from a side view thereof and which can be clearly perceived only from a rear view or from seeing the device laid down as an exerciser in the manner shown in Figure 1.

The base 1 constitutes the chairback. The legs 2 extend therefrom and are preferably integral therewith.

The legs 3 extend from the seat-support 4, but not so far as legs 2. Extension or extensions 5 are provided with screwthreads 6 adapted to co-operate with screwthreads in the legs 3 in the manner clearly shown in Figures 2 and 3. When the device is to be used as a chair, the extensions 5 are screwed into place as shown in Figure 2. When used as an exerciser, the extensions 5 are removed, as shown in Figure 1.

The legs 3 contain grooves 7, in which a projection 8 from seat 9 fits. This is so that the user can sit on seat 9 when exercising in the manner provided for in Figure 1. A similar groove 10 in seat-support 4 receives projection 8, and allows seat 9 to occupy the position shown in Figures 2 and 3 when the device is to be used as a chair.

Braces 11 steady legs 3 when used as a chair, and form a supporting post, therefore, when used in the manner shown in Figure 1.

Seat-support 4 is firmly attached to base 1. By this means and the braces 11, a firm structure either for a chair or an exerciser is provided.

When a person using this device as an exerciser is seated upon seat 9 in the position shown in Figure 1, his toes will be held in toehold 12, which is preferably formed of a strap or band with a buckle 13 or the like, which toehold 12 is removable when not exercising, so that it will not mar the appearance of the device as a chair. The holders 14 for the toehold 12 are placed on the back of the chair, so that they cannot be seen from the front. There is a plurality of these at different distances from the seat 9, so as to allow for adjustment for people whose length of leg is not the same.

The exerciser can bend his head back to the floor near the outer end of legs 2 and return to an upright position without danger of tilting the base 1 in either direction, due to the fact that the length of the legs 2 beyond seat 9 operates as tilt-resisting means.

Rings 15 and elastic or spring cords 16 are mounted on the back of the chairback or base 1, so as to be out of sight when not in use, and this form of exercise known as pull cords can be used with the device when in the position shown in Figure 1 or in the position shown in Figures 2 and 3. The holders 14 for the toehold 12 are located in a part 17 dished or countersunk in the chairback or underneath side of the base 1, so that the device can lie flat on the floor in the manner shown in Figure 1. The holders 16 are preferably arranged in pairs, the near member of each of the said pairs only being shown in Figures 1 and 2.

Having thus described this invention, we hereby reserve the benefit of all changes in form, arrangement, order, or use of parts, as it is evident that many minor changes may be made therein without departing from the spirit of this invention or the scope of the following claims.

We claim:

1. An exercising apparatus embodying the construction of a chair having front legs and screw-threaded extensions connected to the front legs and adapted to be removed out of the way when the chair is laid on its back for use as an exercising apparatus.

2. An exercising apparatus embodying the construction of a chair having front legs and screw-threaded extensions connected to the front legs for supporting the device as a chair in one position and removable out of the way when the chair is laid on its back for use as an exercising apparatus.

3. An exercising apparatus comprising a base convertible into a chairback, with the lower end of the chairback constituting tilt-resisting means, a seat-support adapted to selectively hold a seat in two positions in planes transverse to each other and front supporting legs for the apparatus when used as a chair having lower ends provided with a detachable threaded engagement with the upper ends of the front legs and adapted to be removed and out of the way when the device is used as an exercising apparatus.

4. An exercising apparatus embodying the construction of a chair having a back, rear legs, a seat support and front legs, the front legs being formed of sections of substantially equal lengths having detachable threaded connections and with the outer ends of the legs adapted for removal when the chair is laid on its back for use as an exercising apparatus.

In testimony whereof we hereunto affix our signatures.

CHARLES T. STEVENS.
EDWIN S. DELAPLANE.