May 31, 1960 H. SOLLOWAY ET AL 2,938,572

EXERCISER DEVICE

Filed Jan. 30, 1956

FIG. 1.

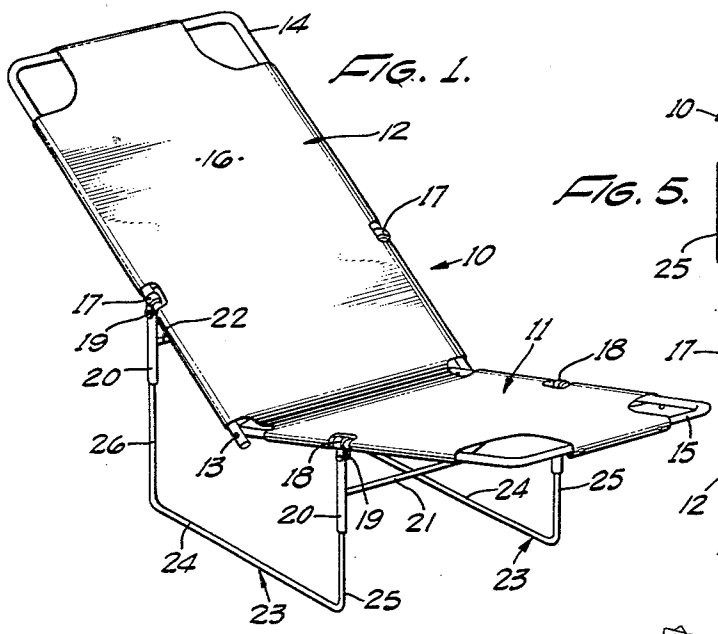


FIG. 5.

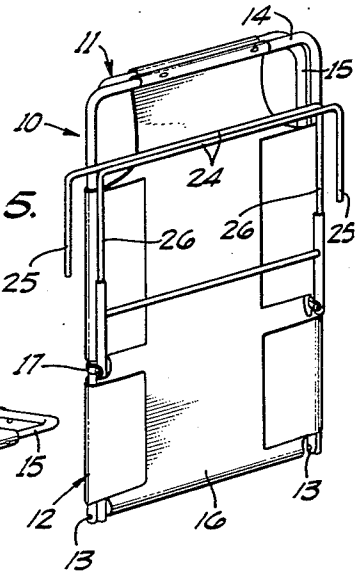
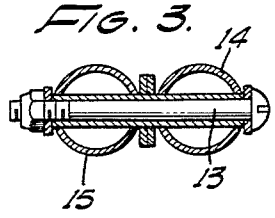


FIG. 3.



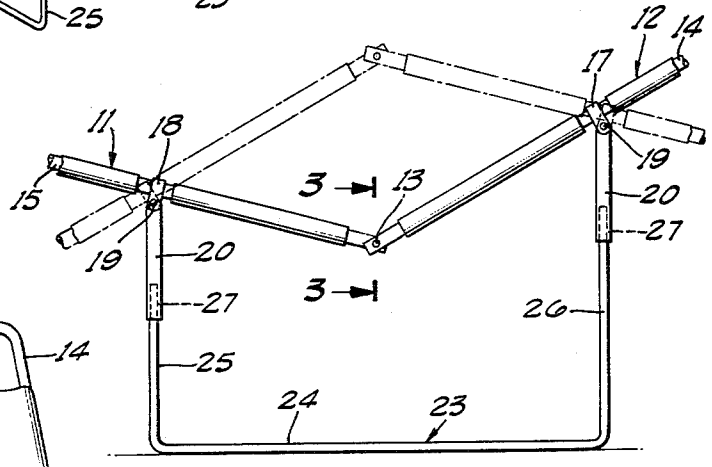


FIG. 2.

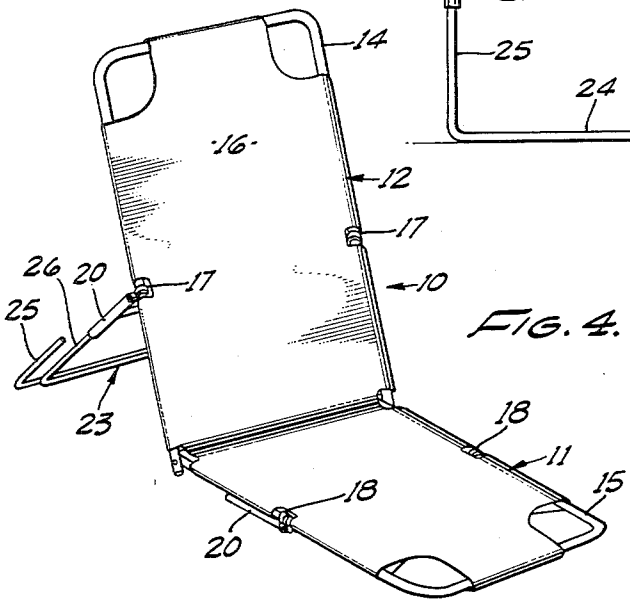


FIG. 4.

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EXERCISER DEVICE

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1 Claim. (Cl. 155—45)

This invention relates to an adjustable and collapsible seating device and is particularly directed to an exerciser device.

An object of this invention is to provide a lightweight collapsible device which may be used in the manner of an exerciser chair or bed which is capable of tilting to different operative positions. Another object is to provide a device of this type which is capable of being folded into a very compact unit for transportation. Another object is to provide a device of this general type which may be employed as a beach chair when desired. Other and more particular objects and advantages will appear hereinafter.

Figure 1 is a perspective view showing a preferred embodiment of our invention.

Figure 2 is a side elevation showing the toggle action of the device.

Figure 3 is a sectional detail taken substantially on the lines 3—3 shown in Figure 2.

Figure 4 is a view illustrating the use of the device as a beach chair.

Figure 5 is a perspective view showing the device collapsed for transportation.

Referring to the drawings, there is provided a body supporting frame **10** consisting of two sections **11** and **12** pivotally connected by means of pivot bolts **13**, each section may conveniently take the form of tubular members **14** and **15** bent into the shape of a U and having a suitable covering **16** such as, for example, canvas. A pair of clamp elements **17** grip the tubular member **14** at locations between the pivot bolt **13** and the outer end of the member **12**. Similarly, a pair of clamp elements **18** grip the tubular member **15** at locations between the pivot bolts **13** and the outer end of the member **11**. Each clamp is connected with a pivot pin **19** to a tubular socket element **20**. The socket elements on the member **11** may be connected by cross bar **21** and similarly the socket elements on the member **12** may be connected to a cross member **22**.

Two U-shaped supporting brackets **23** are provided and each of these brackets includes a base member **24** having upstanding legs **25** and **26** rising from the ends thereof. The legs **25** are shorter than the legs **26**. The upper ends of the legs **25** and **26** project into sockets **27** provided on the tubular element **20**. When the brackets **23** rest on a horizontal surface, the clamp elements **17** are held at a higher elevation than the clamp elements **18**, as clearly shown in Figure 2, and in this way the back section **12** of the device **10** is supported at a greater inclination than the seat section **11**.

The sum of the distances from the clamp element **18** to the pivot bolt **13** and from the pivot bolt **13** to the clamp element **17** is greater than the direct distance between the clamp elements **17** and **18**, with the result that swinging of the sections **11** and **12** from the full line position shown in Figure 2 to the phantom line position shown in Figure 2 causes the legs **25** and **26** to spread resiliently for a sufficient distance to permit this toggle action to occur.

The upper ends of the legs **25** and **26** are telescopically received within the sockets **27** and this construction permits the legs **25** to be disconnected from their respective sockets **27** when desired, to permit the legs **26** to swivel within their respective sockets and assume the folded or collapsed position as shown in Figure 5. In this position, the base members **24** of the brackets **23** extend transversely of the device **10**. The device thus folds to a substantially compact shape for transportation.

In Figure 4, the set section **11** is shown as resting on the ground while the back section **12** is supported in an inclined position by means of the brackets **23**. The long legs **26** are mounted in sockets **20** extending from the clamp elements **17** while the short legs **25** are not received in their respective sockets. The brackets **23** extend transversely of the device **10**.

This application constitutes a continuation in part of our co-pending application Serial No. 498,826 filed April 4, 1955, now abandoned.

Having fully described our invention, it is to be understood that we do not wish to be limited to the details herein set forth, but our invention is of the full scope of the appended claim.

We claim:

In combination, a body supporting frame consisting of two sections pivotally interconnected at the center of the frame, studs downwardly projecting from the side edges of the two sections intermediate the ends thereof, and two U-shaped supporting brackets, each bracket including a base member and legs rising from the ends thereof, the upper ends of the legs of each bracket being pivotally mounted on the studs at one side edge of the frame, the two frame sections having freedom of relative swinging movement on their pivotal interconnection and on the pivotal connection with the upper ends of the legs.

No references cited.