Feb. 13, 1945. T. A. FALLON, SR 2,369,289

STOOL OR CHAIR

Filed May 31, 1944

FIG. 1

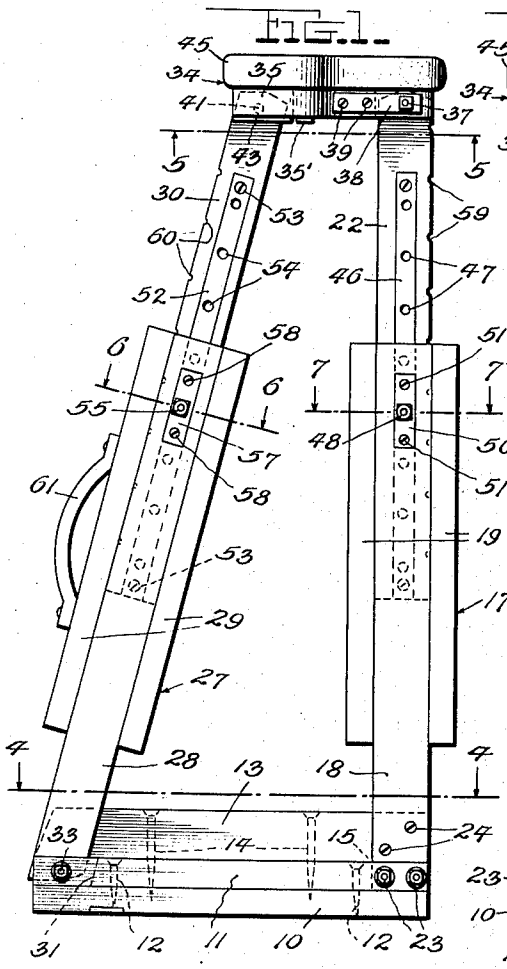


FIG. 2

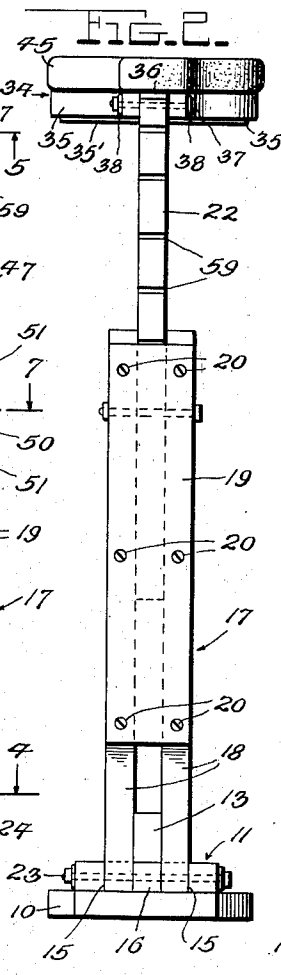


FIG. 3

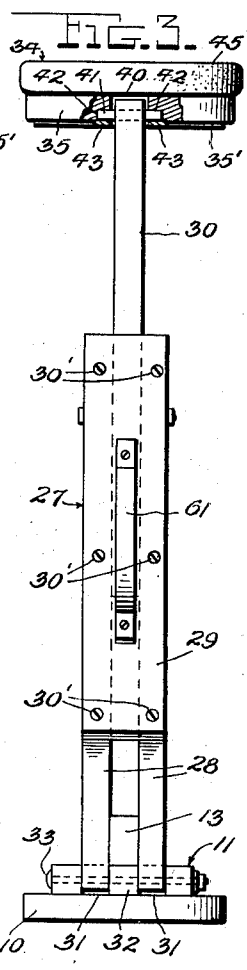


FIG. 4

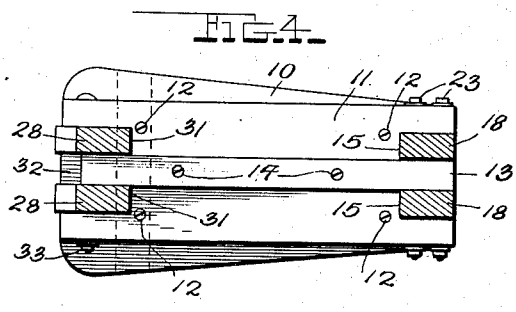


FIG. 5

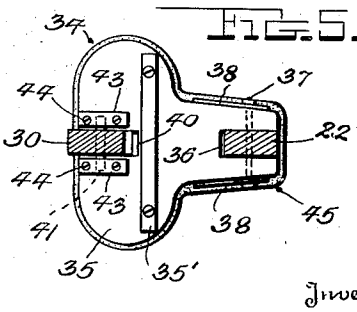


FIG. 6

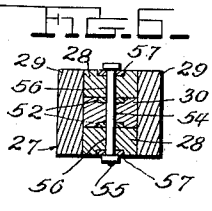
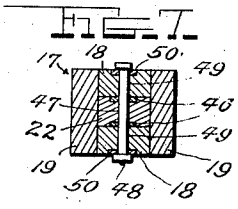


FIG. 7



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STOOL OR CHAIR

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Application May 31, 1944, Serial No. 538,140

4 Claims. (Cl. 155—90)

My invention relates to a stool, chair, or like device.

An important object of the invention is to provide a stool or chair which is collapsible, so that it can be conveniently manually transported.

A further object of the invention is to provide a stool or chair which will support the user in a generally standing position and will permit of the freedom of movement of the user within limits.

A further object of the invention is to provide adjustable means whereby the seat element may be supported in a horizontal position or in inclined positions, to promote the comfort of the user.

A further object of the invention is to provide a device of the above-mentioned character which is light, stiff, and strong, and lends itself to be made principally of wood.

Other objects and advantages of the invention will be apparent during the course of the following description:

In accompanying drawing, forming a part of this application, and in which like numerals are employed to designate like parts throughout the same,

Figure 1 is a side elevation of a stool or chair embodying my invention,

Figure 2 is a front edge elevation of the same,

Figure 3 is a rear edge elevation of the same, parts broken away,

Figure 4 is a horizontal section taken on line 4—4 of Figure 1,

Figure 5 is a similar view taken on line 5—5 of Figure 1,

Figure 6 is a similar view taken on line 6—6 of Figure 1, and

Figure 7 is a similar view taken on line 7—7 of Figure 1.

In the drawing, wherein for the purpose of illustration is shown a preferred embodiment of my invention, the numeral 10 designates a horizontal, elongated or narrow base, preferably tapering forwardly, as shown. This base is preferably formed of wood and a horizontal strip or board 11, preferably formed of wood, is mounted upon the upper face of the base 10 and rigidly attached thereto by screws 12, or the like. A horizontal spacer strip 13, is arranged on edge upon the horizontal strip 11 and is rigidly attached thereto by screws 14, or the like. This spacer strip 13 is equidistantly spaced from the longitudinal edges of the horizontal strip 11, as shown.

Adjacent to its front end, the horizontal strip 11 has openings or notches 15 formed therein, and these openings terminate at the spacer strip 13, leaving a web 16 of the strip 11 between them, as shown. The numeral 17 designates a front leg, which is perpendicular in use, and rigidly secured at its bottom to the base 10. This front leg comprises side strips or bars 18, preferably formed of wood, having edge strips 19 applied thereto and rigidly attached to the same by screws 20, or the like. The strips 18 and 19 form a guide sleeve, which is rectangular in horizontal cross section to slidably receive a strip or bar 22. These parts are preferably formed of wood. The side strips 18 project downwardly beyond the edge strips 19 and extend into the openings 15, and rest upon the base 10. These side strips 18 are secured to the horizontal strip 11 by bolts 23. The side strips 18 are also rigidly secured to the spacer strip 13 by screws 24, as shown. It is thus seen that the front leg is longitudinally extensible and is rigidly attached to the front end of the base 10 at the central longitudinal axis of the base.

The numeral 27 designates a rear leg, which is pivotally connected with the base to swing in a direction longitudinally of the longitudinal axis of the base but incapable of swinging transversely of the base. This rear leg comprises side strips 28, preferably formed of wood, having edge strips 29 rigidly secured thereto by screws 30' or the like. The edge strips 29 and side strips 28 form a guide sleeve which is rectangular in cross section to receive a bar 30, preferably formed of wood. The strips 28 extend downwardly beyond the strips 29 and enter openings or notches 31 formed in the horizontal strip 11. These notches terminate at the spacer strip 13 and leave a web 32 of the base 10, as shown. The strips 28 are pivotally connected with the horizontal strip 10 by means of a horizontal bolt 33. The strips 28 slidably engage the side walls of the openings 31 and the side walls of the spacer strip 13, whereby the strips 28 cannot swing perceptibly transversely of the base, but may swing longitudinally of the base.

The numeral 34 designates a seat, such as a bicycle or straddle seat. This seat comprises a lower body portion 35, preferably formed of wood, tapering forwardly and having a transverse reinforcing strap iron 35', as shown, and provided at its reduced forward end with an opening or notch 36, at its central longitudinal axis. This opening or notch 36 receives the upper end of the bar 22, and this bar is pivotally connected with the body portion 35 by a horizontal bolt 37. The bolt 37 passes through metal plates 38, attached to the edge of the body portion 35 by screws 39 or the like. At its rear end, the body portion 35 has an opening or notch 40, at the central longitudinal axis thereof, and this opening or notch receives the bar 30. This bar has its upper end pivotally connected with the body portion 35 by means of a horizontal pin 41, passing through an opening in the bar 30 and arranged within recesses 42 formed in the lower

face of the body portion 35 and held within these recesses by plates 43, secured in place by screws 44.

The seat further comprises an upper portion or cushion 45, secured to the seat body portion 35 by any suitable means.

The bar 22 has metal straps 46 secured to its opposite faces by screws or the like and these metal straps are countersunk into these faces to be flush therewith. Spaced openings 47 are formed through the metal straps 46 and bar 22, for receiving a removable bolt 48, passing through openings 49, formed in the side strips 18 and metal strips 50, secured to the side strips by screws 51 or the like and countersunk in the faces of these side strips to be flush therewith. The bar 30 has metal strips 52 applied to its opposite faces and countersunk therein and held in place by screws 53 or the like. Openings 54 are formed through the bar 30 and metal strips 52 and receive a removable bolt 55, passing through openings 56, formed in the side strips 28 and metal strips 57, secured thereto by screws 58 or the like. These metal strips are countersunk so that they are flush with the outer faces of the strips 28. The bar 22 is provided upon its outer edge with spaced grooves or lines 59, to coact with the upper end of the adjacent strip 19. When a line 59 is at the upper end of the strip 19, the opening 47 will be in alignment with the openings 49 and the bolt 48 may then be passed through these openings. Bar 30 is provided with spaced grooves 60 for indicating when the bolt 55 may be passed through its openings.

The numeral 61 designates a handle which may be secured to the outer edge strip 29, as shown.

In the use of the device, the bars 22 and 30 are vertically adjusted within their sleeves, and locked in the selected adjusted position. This will bring the seat 34 at the desired elevation. This seat may be horizontally arranged or it may be inclined downwardly in a forward direction, which is effected by lowering the bar 22 with respect to the bar 30. The rear leg 27 can swing with respect to the base and the front leg and the seat 34 can swing with respect to the bars 22 and 30. When the device is to be transported the bars 22 and 30 are shifted to the lowermost position and the seat 34 is brought adjacent to the guide sleeves. In this collapsed condition the device may be readily transported by manipulation of the handle 61.

When the device is distended, and is supporting the user who straddles the seat 34, such device will securely hold the user against forward and rearward movement, but the user may readily move laterally within limits, as the elongated base 10 may be tilted upon its longitudinal edges upon the floor or the like. The device will therefore support the user, in whole or in part, while the user is substantially in a standing position. This will provide considerable rest for many workers who are compelled to stand for long periods.

It is to be understood that the form of my invention herein shown and described is to be taken as a preferred example of the same and that various changes in the shape, size, and arrangement of parts may be resorted to without departing from the spirit of my invention or the scope of the subjoined claims.

Having thus described my invention, what I claim is:

1. A stool or chair, comprising a base, a substantially vertical longitudinally extensible leg rigidly connected at its lower end to the base, a companion upstanding longitudinally extensible leg pivotally connected at its lower end to the base to swing toward and from the first-named leg, and a seat extending between the upper ends of the legs and pivotally connected therewith.

2. A stool or chair, comprising an elongated base, a substantially vertical longitudinally extensible leg rigidly connected with the elongated base near one end of the base, a companion upstanding longitudinally extensible leg pivotally connected with the base near the opposite end of the base to swing toward and from the first-named leg, and a seat extending between the upper ends of the legs and pivotally connected with such upper ends.

3. A stool or chair, comprising a base provided near its opposite ends with pairs of longitudinal openings, a substantially vertical leg, said leg including a guide sleeve and strips projecting downwardly beyond the guide sleeve and entering one pair of longitudinal openings, means to rigidly connect the strips with the base, a bar slidably mounted within the guide sleeve, means to lock the bar to the guide sleeve in a selected adjusted position, a companion upstanding leg arranged near the opposite end of the base, said companion leg including a guide sleeve and strips depending below the guide sleeve and passing into the openings at the opposite end of the base, means to pivotally connect the last-named strips with the base so that the last-named sleeve may be swung toward and from the first-named leg, a bar slidably mounted in the last-named sleeve, means to lock the last-named bar in the selected adjusted position, and a straddle seat extending between the upper ends of the bars and pivotally connected therewith.

4. In a stool or chair, an elongated base, a strip rigidly mounted upon the upper face of the base and provided at its opposite ends with pairs of longitudinal openings, a spacer strip rigidly mounted upon the upper face of the first-named strip and arranged between the openings of each pair, a substantially vertical guide sleeve having side strips extending downwardly below the same and engaging opposite sides of the spacer strip and passing into the adjacent pair of longitudinal openings, means rigidly connecting the side strips with the first-named strip, means rigidly connecting the side strips with the spacer strip, an upstanding companion guide sleeve having side strips extending downwardly beyond the same and passing into the adjacent pair of longitudinal openings at the opposite end of the first-named strip, means pivotally connecting the last-named side strips with the first-named strip so that the second-named sleeve can swing toward and from the first-named sleeve, bars longitudinally adjustably mounted in the guide sleeves to extend above the same, means to lock each bar to its guide sleeve in the selected adjusted position, and a straddle seat extending between the bars and pivotally connected with the upper ends of the bars.

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