Aug. 28, 1951 J. BAYLESS 2,566,113

CHAIR ARM

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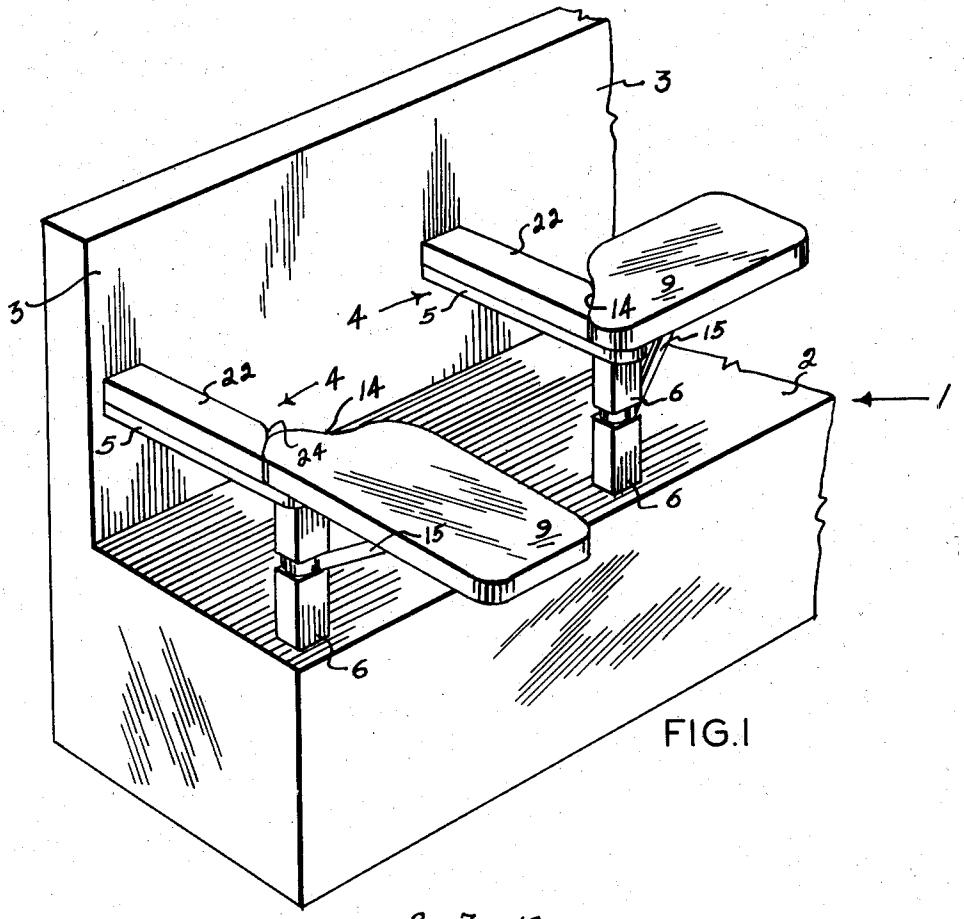


FIG.1

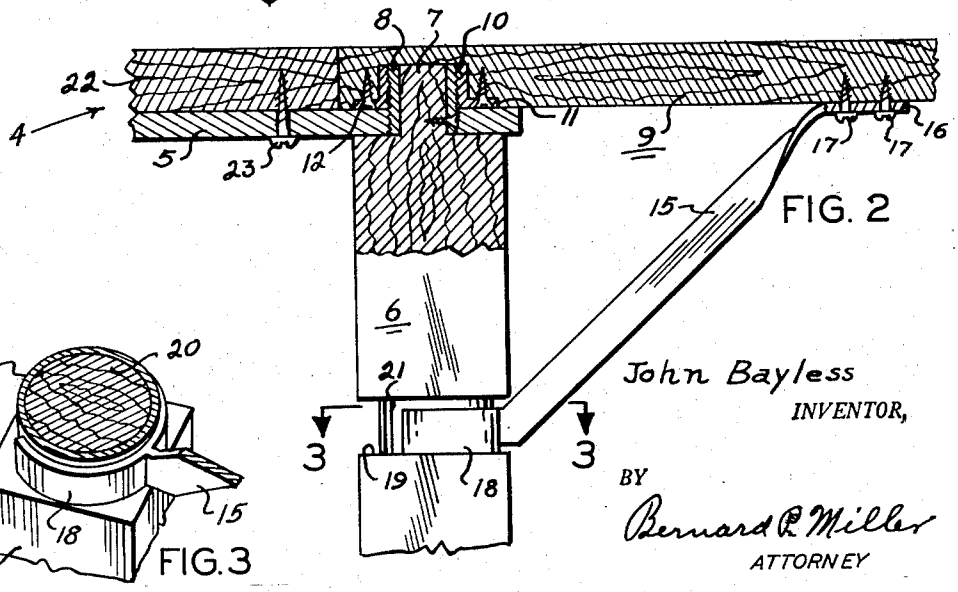


FIG. 2

FIG.3

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CHAIR ARM

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8 Claims. (Cl. 155—125)

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The present invention relates to chairs or seats, and more particularly to table-arms therefor.

The principal object of the invention is to provide a laterally swinging arm for a chair or other seat, said arm being enlarged to provide a table surface upon which work may be accomplished or from which food may be eaten.

A further object is to provide an article of furniture of this class, which will conserve space.

Another object is to provide a swinging arm mechanism which is simple in construction and comparatively cheap to manufacture.

An additional object is to provide a swinging arm structure which is sufficiently strong to support considerable weight without sagging or racking during use.

Other objects will be apparent from the following description when taken in conjunction with the accompanying single sheet of drawings, wherein:

Figure 1 is a fragmentary perspective view of a two seated bench which is equipped with two arms constructed in accordance with the present invention;

Figure 2 is a vertical sectional view taken substantially along the major axis or longitudinal center line of the left hand arm of Fig. 1; and

Figure 3 is a horizontal sectional view taken substantially along the line 3—3 of Fig. 2.

Like characters of reference designate like parts in those figures of the drawings in which they occur.

In the drawings:

The reference numeral 1 indicates a two place seat or bench having a horizontal seating surface 2 and a substantially vertical rigid back 3. The seat 1 is provided with a plurality of identical rigid arms 4, each of which is composed of a horizontal member 5 having its front end supported by a vertical post 6.

As best illustrated in Fig. 2, the upper end of the post 6 is provided with a vertically projecting pin portion 7 which is sheathed in an exteriorly threaded tube 8 of metal. The front end portion of the horizontal arm member 5 is vertically perforated to closely nest the bottom portion of the tube 8.

A flat table element 9 has its lower surface bored upwardly to provide a cylindrical cavity which does not extend entirely through the element. The wall of this cavity is lined with an interiorly threaded bushing 10 of metal, the bushing having an outwardly projecting annular flange 11 which is perforated to receive wood-screws or other detents 12. The bushing 10 is

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adapted to be threadedly engaged over the tube or sheath 8, as shown in said Fig. 2, and is screwed down until the flange 11 lies adjacent the upper surface of the horizontal arm member 5.

The inner or left hand edge of the table element 9 is curve-cut to provide an arcuate edge portion 14, having a purpose which is more fully described hereinbelow.

As a means for bracing the forward or outer end of the table element 9 against sagging or racking during its swinging movement, there is provided a downwardly and rearwardly extending brace 15, the upper outer end 16 of which is rigidly connected to the bottom surface of the element 9 by screws or other detents 17. The lower end of the brace 15 is equipped with a horizontally extending semi-cylindrical yoke or shoe 18 (Fig. 3).

At a desired vertical point lying below its upper end, the post 6 is provided with an encircling groove 19 which forms a cylindrical portion 20 out of the post material. The periphery of the post portion 20 is surrounded by a rigidly positioned metal wear sleeve 21 which is complemental in outside diameter to the inside diameter of the yoke 18. The yoke 18 is therefore adapted to pivot around the sleeve 21 as the outer end of the table element 9 is swung in a horizontal plane.

After the table element has thus been mounted on the post 6 and its pin portion 7, the upper surface of the horizontal arm member 5 is covered by a flat plate 22 held in place thereon by a plurality of wood-screws. One of such screws is shown in Fig. 2, and is indicated by the reference numeral 23.

The outer or front end edge of the plate 22 is arcuately cut as shown at 24, and this arcuate edge 24 is adapted to contact the curved edge portion 14 of the table element 9 and to act as a stop for limiting the rearward swinging movement of the element 9 (Fig. 1). The rearward swinging movement of the table element 9 is limited at a position in which the element is disposed at substantial right angles to the arm member 5, as shown in the right hand portion of Fig. 1.

It is thought that operation of the device is obvious.

Obviously the invention is susceptible to some change or alteration without defeating its practicability, and I therefore do not wish to be confined to the preferred embodiment shown in the drawings and described herein, further than I

am limited by the scope of the appended claims.

I claim:

1. A seat including: a horizontal arm; a vertical post rigidly supporting the front end of said arm; a pin projecting vertically from the upper end of said post; an exteriorly threaded sheath surrounding the pin; a horizontal table; an internally threaded socket in the lower surface of the table and threadedly engaging said sheath so that the table may swing in a horizontal plane; a slanting brace having its upper front end rigidly attached to the lower surface of the table in spaced relation to the socket, the lower end of said brace extending toward said arm; a horizontal arcuate shoe carried by the lower end of said brace, and pivotally surrounding a portion of said post, said post having means for preventing vertical movement of the shoe with relation thereto.

2. In an article of furniture, the combination with a seat and a back therefor, and with a horizontal arm having its front end supported by a vertical post, of: a pivot pin extending vertically from the upper end of the post; an exteriorly threaded sheath surrounding the pin; a horizontal table; an internally threaded socket in the lower surface of the table and threadedly engaging said sheath so that the table may swing in a horizontal plane; a slanting brace having its upper front end rigidly attached to the lower surface of the table in spaced relation to the socket, the lower end of said brace extending toward said arm; and a horizontal arcuate shoe carried by the lower end of said brace, and pivotally surrounding a portion of said post, said post having means for preventing vertical movement of the shoe with relation thereto.

3. Structure as specified in claim 1, and means for limiting the swinging movement of the table.

4. Structure as specified in claim 2, and means for limiting the swinging movement of the table.

5. Structure as specified in claim 1, in which said means includes: a portion of the post which is abruptly reduced in outside dimension to produce a vertically facing horizontally extending shoulder upon which the shoe may ride.

6. Structure as specified in claim 1, in which said means includes: a portion of the post which is abruptly reduced in outside dimension to produce a cylindrical surface with a horizontal shoulder at each end thereof, said shoulders functioning to confine the shoe vertically.

7. Structure as specified in claim 2 in which said means includes: a portion of the post which is abruptly reduced in outside dimension to produce a vertically facing horizontally extending shoulder upon which the shoe may ride.

8. Structure as specified in claim 2 in which said means includes: a portion of the post which is abruptly reduced in outside dimension to produce a cylindrical surface with a horizontal shoulder at each end thereof, said shoulders functioning to confine the shoe vertically.

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