Nov. 13, 1934. C. DI BELLA 1,980,748

CHAIR

Filed Oct. 21, 1933

Fig. 1.

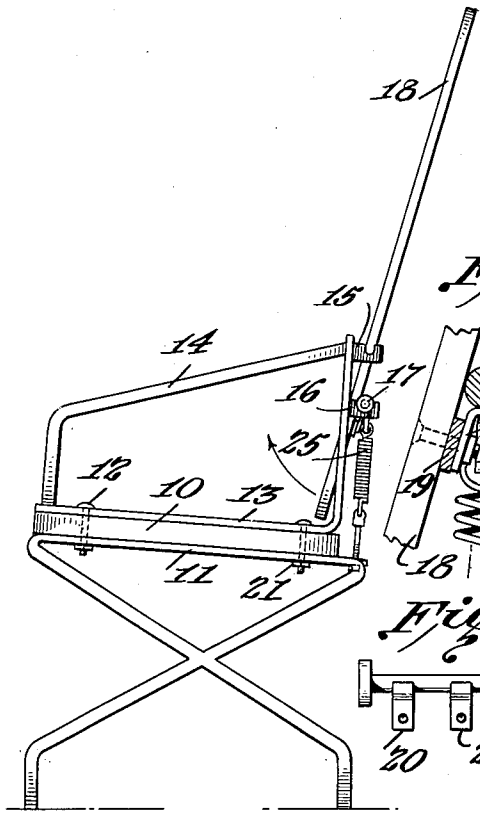


Fig. 6.

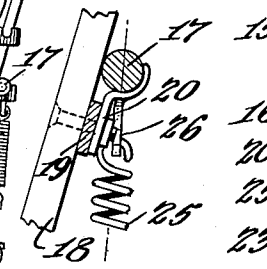


Fig. 5.

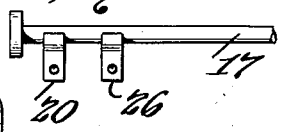


Fig. 2.

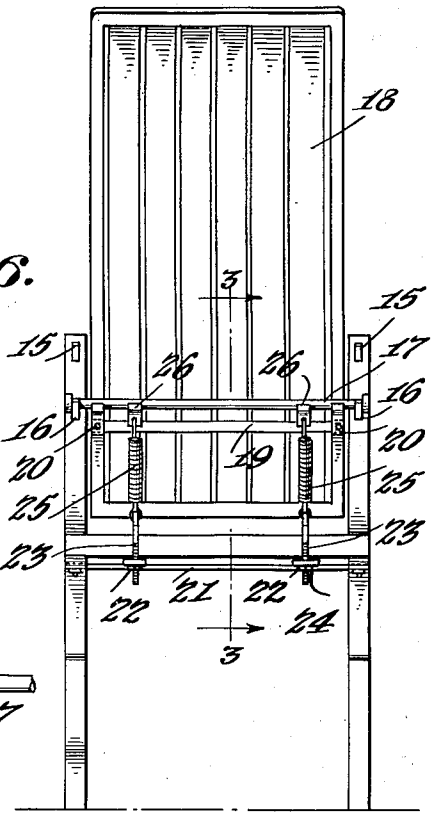


Fig. 3.

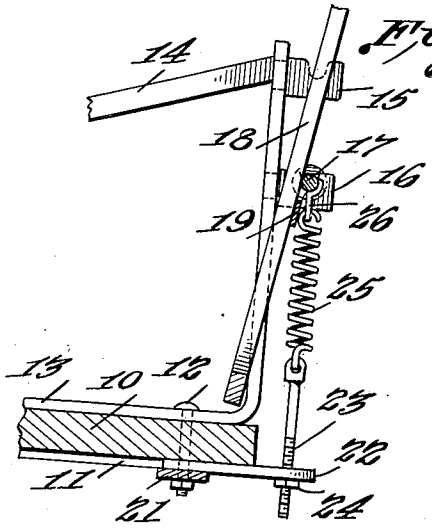
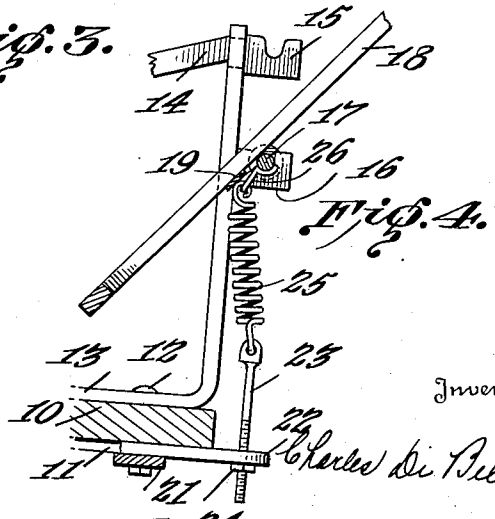


Fig. 4.



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Patented Nov. 13, 1934 1,980,748

UNITED STATES PATENT OFFICE

1,980,748

CHAIR

Charles Di Bella, Caldwell, N. J.

Application October 21, 1933, Serial No. 694,640½

1 Claim. (Cl. 155—156)

This invention relates to furniture and particularly to a chair having an adjustable back.

It is an object of the invention to provide a chair with brackets or bearings in which a rod is rotatably mounted, the said rod having means by which it is attached to the back of a chair, in order that said back may oscillate from approximately vertical position to inclined positions at different angles with respect to the seat of the chair in order that an occupant of the chair may recline comfortably and without the exercise of undue pressure or force for the purpose of causing the back of the chair to swing into the inclined positions.

It is a further object of the invention to provide novel means by which the back is returned to normal position when it is released by the occupant of the chair.

A still further object of this invention is to provide means for adjusting the back to different positions vertically and supporting it in said positions in order that the chair may be made to operate in conjunction with occupants of different statures, the back retracting device being adjustable to the different positions of the back as to height of the supporting rod.

With the foregoing and other objects in view, the invention consists in the details of construction, and in the combination and arrangement of parts to be hereinafter more fully set forth and claimed.

In describing the invention in detail, reference will be had to the accompanying drawing forming part of this application, wherein like characters denote corresponding parts in the several views, and in which—

Figure 1 illustrates a side view of the chair embodying the invention;

Figure 2 illustrates a rear elevation thereof;

Figure 3 illustrates a sectional view of the chair, the back adjusting device being shown in elevation;

Figure 4 illustrates a similar view with the back in a different position;

Figure 5 illustrates a detail view of the rod and parts associated therewith; and

Figure 6 illustrates an enlarged detail view of the back retracting instrumentalities.

In the drawing 10 denotes the seat of the chair and 11 the end frame thereof, it being understood that these end frames are duplicated at the two ends of the chair, but the inventor does not wish to be limited with respect to the details of construction of the under frame. As here shown, a horizontally disposed section of the under frame is secured to the seat by fastenings 12 such as bolts or the like and these bolts furthermore perform the function of holding the frame 13 of the arms 14. The rear surface of each frame 13 is provided with recessed lugs or bearings 15 and 16 which are intended to support a rod 17 at different heights. The back 18 of the chair has a plate 19 secured to it and the said plate is provided with a cleat or clamping member 20 near each end and the said clamping member is curved to partially embrace the rod so that the rod and back are held assembled and when the rod is located in the bearings 15 or 16, the back may oscillate since, of course, the rod partially rotates in the bearing.

A plate 21 is bolted or otherwise secured to the bottom of the chair and arms such as 22 extend rearwardly therefrom beyond the rear edge of the seat. The threaded elements 23 extend through each arm and a nut 24 engaging the threaded elements affords an adjustment by which the tension of a spring 25 which is attached to said threaded element may be regulated. It is here shown that the upper end of the spring 25 is attached to an arm 26 which may be secured to the rod 17 in any desired manner as by welding or the like.

It is obvious from an inspection of the drawing and from the foregoing description that a user of the chair may occupy the seat thereof with his back a short distance from the back of the chair when it is in vertical position and by leaning backwardly, cause the back of the chair to assume an inclined position and it is the purpose of the inventor that the tension of the spring shall be such as to prevent too ready yielding of the back, since it is preferable that the weight of the occupant of the chair shall be sustained to a great extent in order that he may occupy a position without muscular effort to retain himself in any particular posture.

I claim:

In an adjustable chair, a seat having arms, pairs of horizontally alined brackets extending rearwardly of the arms, a rod rotatably supported by either pair of brackets, a back for the chair, means for connecting the back to the rod, members attached to the said rod and projecting therefrom, springs each one of which has its upper end connected to one of the aforesaid members, an adjustable element for each of the springs connected to the lower ends of said springs, and a pair of stationary members each fixed to the seat of the chair and attached to each of the adjustable elements.

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