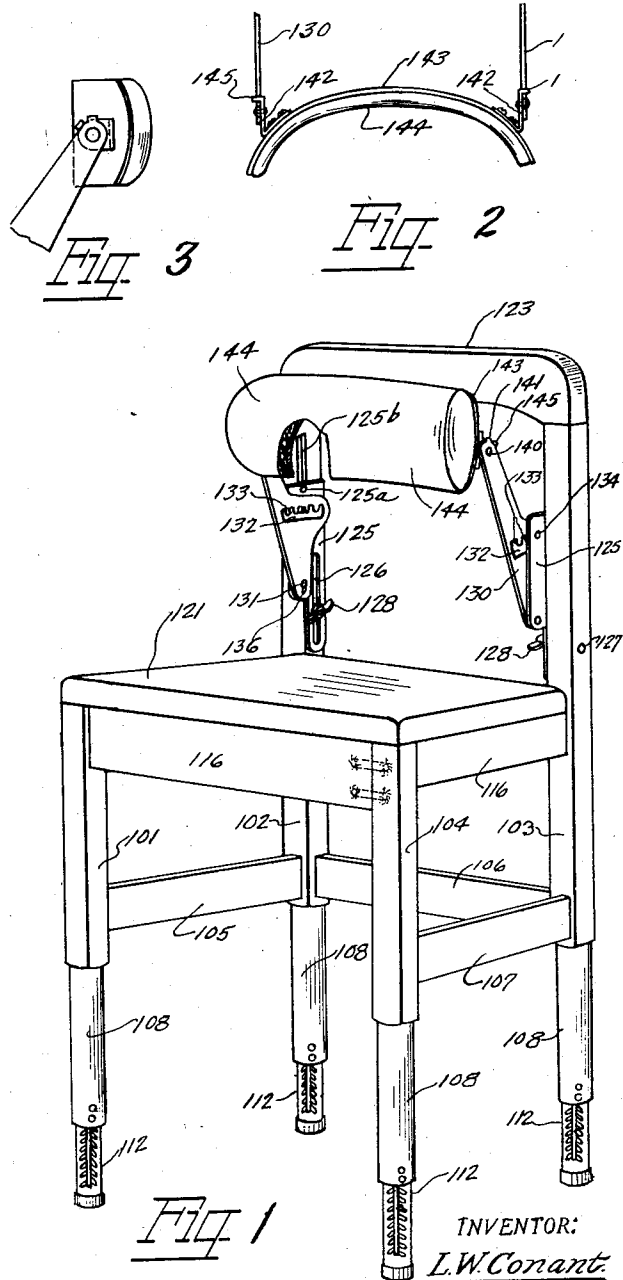


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POSTURE REGULATING CHAIR
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POSTURE REGULATING CHAIR

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6 Claims. (Cl. 155—158)

This invention relates to a posture regulating chair and more especially to a chair having means for adjusting the back portion to suit the height of the occupant for providing an all around office chair adapted to be adjusted to suit the individual requirements of the occupant, and is broadly classified as a posture regulating chair.

An object of my invention is to provide a chair in which the reclining or back portion can be regulated to suit the requirements of the particular occupant of the chair.

Another object of the invention is to provide in a chair a lumbar support which can be adjusted vertically with relation to the seat of the chair and which can also be adjusted forwardly and rearwardly.

Some of the objects of my invention having been stated other objects will appear as the description proceeds, when taken in connection with the accompanying drawing, in which—

Figure 1 is a perspective view of my chair;
Figure 2 is a top plan view of the back rest;
Figure 3 is a side elevation of the structure looking at the left hand end of Figure 2;

In Figures 1 to 3 inclusive I show my chair having leg members 101, 102, 103 and 104 which leg members have the braces 105, 106 and 107 securing the same to each other and the lower end of these leg portions have secured thereon the tubular members 108, which fit over the lower portion of the legs of 101 to 104 inclusive.

Slidably and adjustably mounted within the tubular members 108 are the other tubular members 112.

The members 101 to 104 inclusive have the cross-pieces 116 secured thereto on which is secured a seat portion 121.

The post members 102 and 103 project upwardly at the rear of the seat portion and the cross-piece 123 is secured thereto and intermediate the seat portion and the member 123, I secure a vertically adjustable member 125 having a slot 126 therein with a bolt 127 piercing the post members 102 and 103, with the thumb nut 128 thereon for purposes of vertically adjusting the members 125 with relation to the post members. The member 125 has a pin 125a which slides in the vertically disposed slot 125b in each of the posts 102 and 103 to prevent swinging movement of members 125. Pivotaly secured to each of the members 125 is a member 130 which has an arcuate slot 132 therein with a plurality of cavities 133 in the upper edge thereof which are adapted to mesh with a pin 134 to

regulate the position of the members 130. The pins 131 move in vertically disposed slots 136 in the members 130 during adjustment.

The members 130 have the pins 140 in the upper end thereof with the upwardly projecting lug 141 and to these pins 140 are pivotally secured the members 142 which are secured to the back rest portion 143 which is padded as at 144. These members 142 have the overhanging lips 145 which project over the members 130 and fall within the path of the lugs 141 so as to prevent the back rest portion 143 from falling too far forward and downward but allowing the same to be raised upwardly.

In the drawing and specification I have set forth a preferred embodiment of my invention, and although specific terms are employed, they are used in a generic and descriptive sense only, and not for purposes of limitation, the scope of the invention being set forth in the appended claims.

I claim:

1. In a chair having back posts projecting above the seat portion, each post having a vertically extending slot therein, a bracket having a projection thereon, said projection being slidably mounted in said slot, means for securing the bracket in adjusted position along said slot, an upwardly projecting member pivotally secured on each of said brackets, each of said upwardly projecting members having an arcuately disposed toothed slot therein, a pin on each of said brackets and projecting into said toothed slot for engagement with the teeth in said toothed slot to hold the upwardly projecting member in adjusted position, and a lumbar support pivotally secured at its ends to the upper ends of said upwardly projecting members.

2. In a chair having the rear posts extending above the seat portion of the chair, a bracket member secured for vertical adjustment along each post, an upwardly projecting arm slidably and loosely secured at its lower end to said bracket and having an arcuate toothed slot therein, a pin on the bracket projecting into said toothed slot and a lumbar support secured at its ends to the upper end of each of said arms.

3. In a chair having back posts, and each of said back posts having a vertically extending slot therein, a bracket secured to each post and having a portion extending into said slot, means for adjustably securing the bracket to said post, each of said brackets having upper and lower projecting pins thereon, an arm slidably secured to each of the lower pins, each arm having a toothed

slot therein, the said upper pin projecting into said toothed slot, a lumbar support pivotally secured to the upper ends of said arms, the arms being adjustable by raising the same and swinging them to a new position and then lowering said arms to cause the upper pins to engage said toothed slot in a new position.

4. In a chair having back posts with vertically disposed grooves therein, a bracket having a portion projecting into each of said grooves and means for adjusting said brackets along said grooves, an arm having a pivotal connection at its lower end to each of said brackets, said pivotal connection comprising a pin in the bracket and a slot in said arms to permit vertical movement of said arms, each of said arms having a curved slot with a rack in one side thereof, a pin on each bracket projecting into said last slot, and a lumbar support pivotally secured at its ends to the upper ends of said arms.

5. In a back rest for chairs, a lumbar support, arms pivotally connected to each end of the support, each arm having a vertically disposed slot in its lower end, each arm also having an arcuate slot therein whose center is the lower end of the vertically disposed slot, a rack disposed along the

upper edge of each of the arcuate slots, a bracket mounted on each arm, pins in each bracket protruding through both of said slots, means for adjustably securing the brackets to the back of the chair, the arms and lumbar support being raisable as a unit for backward and forward adjustment and lowerable to cause the pin in each arcuate slot to engage its rack to hold the arms and lumbar support in adjusted position.

6. In a chair having rear posts, a form-fitting lumbar support, a pair of arms pivotally connected to the ends of the support, a vertically disposed slot in the lower end of each arm, a transversely disposed arcuate slot in each arm, a vertically adjustable bracket mounted on each arm and each post, a pair of spaced pins in each bracket projecting into the set of slots in each bracket, one edge of each of the arcuate slots having teeth therein, the arms and lumbar support being raisable as a unit for causing said upper pins to engage a new set of teeth in said racks to hold the lumbar support in adjusted position when the same with its arms is pushed downwardly.

LAWRENCE W. CONANT. 100

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