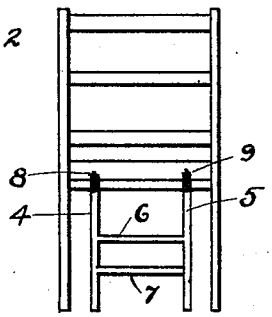
D. BRANDFON.

ADJUSTABLE CHAIR RECLINER.

APPLICATION FILED DEC. 5, 1918.

1,309,012. Patented July 8, 1919.

Fig. 2



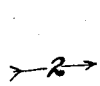


Fig. 1

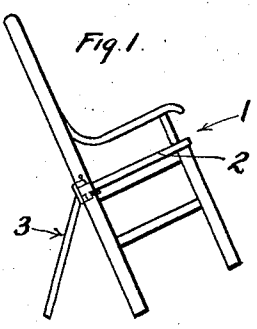


Fig. 3

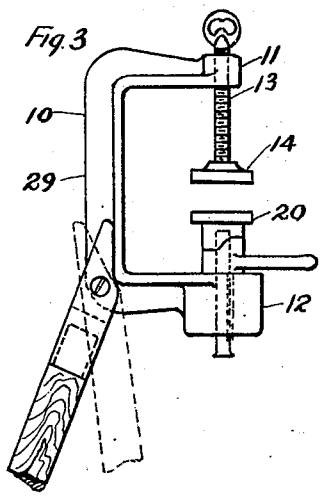


Fig. 4

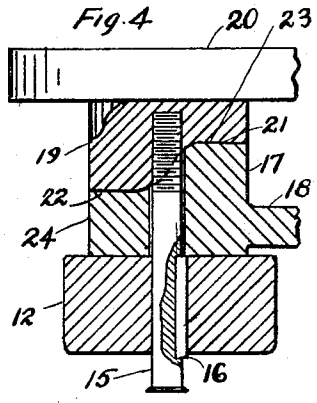
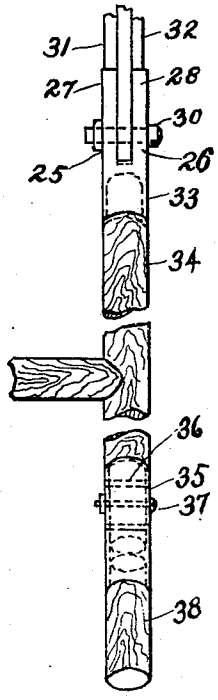


Fig. 5



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ADJUSTABLE CHAIR-RECLINER.

1,309,012. Specification of Letters Patent. Patented July 8, 1919.

Application filed December 5, 1918. Serial No. 265,455.

To all whom it may concern:

Be it known that I, DAVID BRANDFON, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Adjustable Chair-Recliners, of which the following is a specification.

My object is to make an adjustable chair recliner, and my invention consists of the novel features herein shown, described and claimed.

Figure 1 is a side elevation of a chair showing an adjustable chair recliner embodying the principles of my invention in use and supporting the chair in a reclining position.

Fig. 2 is a rear elevation looking in the direction indicated by arrow 2 in Fig. 1.

Fig. 3 is a side elevation of the clamp upon an enlarged scale, the supporting frame being broken away.

Fig. 4 is a sectional detail of the movable clamping member upon an enlarged scale.

Fig. 5 is a fragmentary rear elevation of one side of the supporting frame.

The chair 1 has a flat seat board 2, and the adjustable chair recliner 3 is connected to the rear edge of the seat board 2.

The adjustable chair recliner 3 consists of side bars 4 and 5, crossbars 6 and 7 rigidly connecting the side bars, and clamps 8 and 9 hinged to the upper ends of the side bars 4 and 5 and clamping the seat board 2. The clamps 8 and 9 are substantially alike and each clamp consists of a C-shaped frame 10 having a bearing 11 in its upper end and a bearing 12 in its lower end, a compression screw 13 screw seated through the bearing 11 and having a clamping plate 14 swiveled upon its lower end, a stem 15 sliding through the bearing 12 and having a spline 16 to hold the stem from rotating in the bearing, a cam 17 mounted upon the bearing 12 and having a handle 18, a cam 19 fixed upon the upper end of the stem 15 with the stem extending through the cam 17, and the clamping plate 20 formed integral with the cam 19, the clamping plates 14 and 20 being in vertical alinement; so that when the screw 13 is adjusted, the rear edge of the seat board 2 placed between the clamping plates 14 and 20 and the handle 18 operated one way, the clamps grip the seat board, and when the handle is operated the other way the seat board is released.

The cams 17 and 19 are circular in plan, the cam 17 having an upper face 21, and the cam 19 having a lower face 22, so that when the cam 17 is rotated the face 21 slides under the face 22 to raise the clamping plate 20, and the cam 19 has a lower face 23 on a higher level than the face 22, and the cam 17 has an upper face 24 on a lower level than the face 21, so that when the handle 18 is moved to a releasing position the face 23 engages the face 21, and the face 22 engages the face 24. The faces 21 and 24 are connected both ways by curved inclines, and the faces 22 and 23 are connected both ways by similar curved inclines, the inclines of one face fitting the inclines of the other face when the clamp is released.

The upper ends of the side bars 4 and 5 are bifurcated to form the bearings 25 and 26 and the stops 27 and 28. The central portion of the frame 10 is T-shaped in cross section, and the flange 29 of the central portion fits between the stops 27 and 28 and between the bearings 25 and 26, and the bolt 30 is inserted through the bearings and through the flange to make a hinge connection, and when the lower end of the side bar is thrown backwardly the stops 27 and 28 engage the flanges 31 and 32 of the frame 10. The upper ends of the side bars 4 and 5 are metal, there being a ferrule 33 extending downwardly from the bearings 25 and 26 and connecting the bearings together. The wooden stick 34 has a reduced upper end fixed in the ferrule 33, and the crossbars 6 and 7 connect the two wooden sticks 34 together. A sleeve 35 is slidingly mounted upon the lower end of the stick 34, there being a plurality of bolt holes 36 through the stick, and a corresponding pair of bolt holes through the sleeve to receive the bolt 37, so that by moving the bolt 37 from one hole 26 to another the effective length of the side bar is adjusted. A wooden peg 38 is fixed in the lower end of the sleeve 35 to engage the floor.

In the practical operation, the adjustable chair recliner 3 is applied to the seat board 2 by manipulating the screws 13 to properly locate the clamping plates 14, then operating the hand levers 18 to clamp the recliner to the seat board. Then the side bars 4 and 5 are adjusted by moving the screws 37 to give the chair the proper inclination when in its reclining position. Then when

the person occupying the chair desires to recline, the lower end of the supporting frame is swung backwardly and the chair tilted backwardly until the frame engages the floor, as shown in Fig. 3; then the chair will stand solidly upon its two rear legs and upon the recliner.

Various changes may be made without departing from the spirit of my invention as claimed.

I claim:

An adjustable chair recliner comprising side bars, crossbars rigidly connecting the side bars, C clamps hinged to the upper ends of the side bars, compression screws screw seated through the upper ends of the C clamps, upper clamping plates swiveled upon the lower ends of the compression screws, stems sliding through the lower ends of the C clamps and held against rotation, cams mounted upon the lower ends of the C clamps around the stems, handles for operating the clamps, and second cams fixed upon the upper ends of the stems in engagement with the first cams and in opposition to the clamping plates so that by manipulating the handles the clamps may grip a seat board.

In testimony whereof I have signed my name to this specification.

DAVID BRANDFON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."