

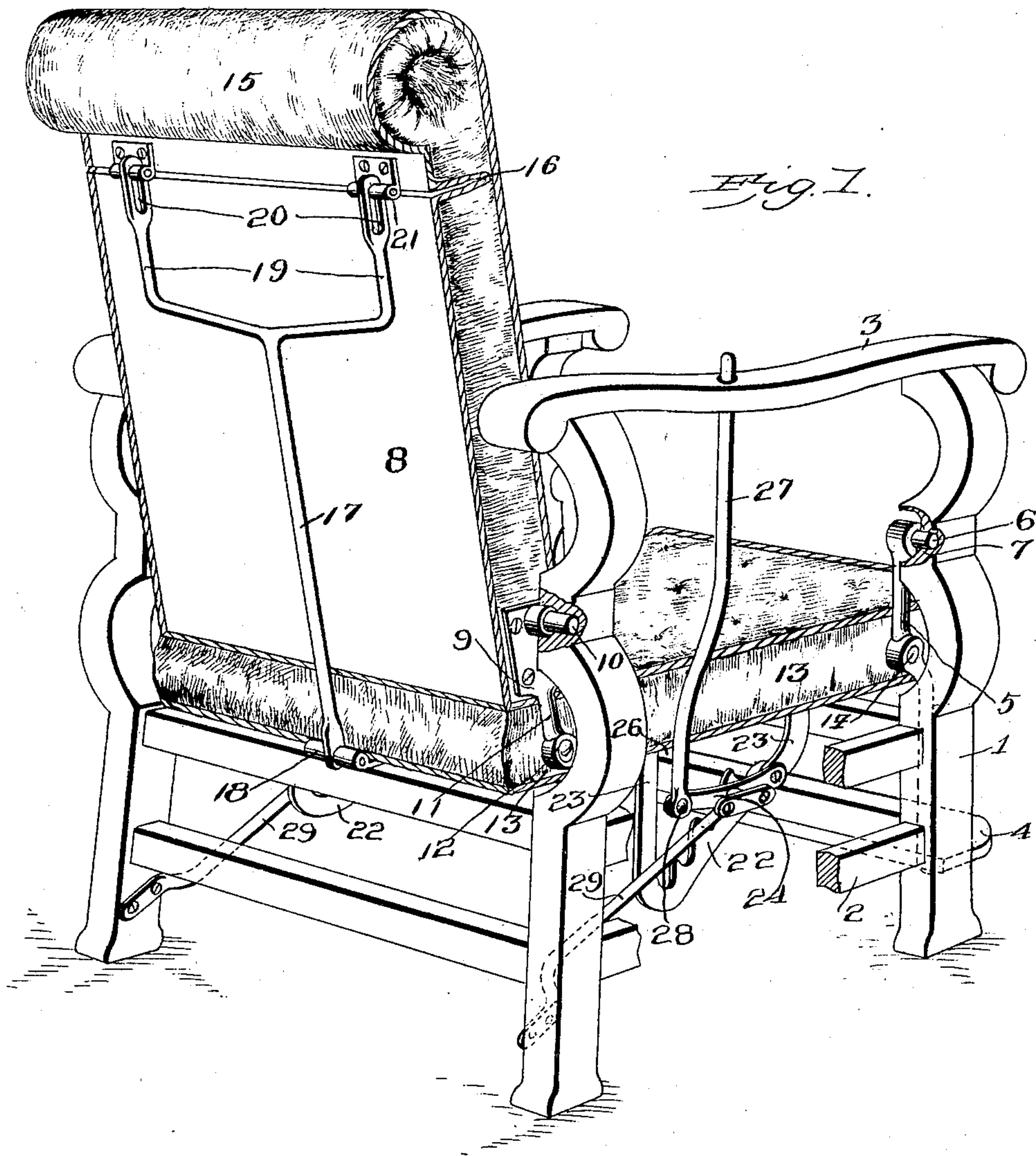
J. E. ARCHAMBEAULT.
ADJUSTABLE CHAIR.

(Application filed Jan. 13, 1902.)

Patented Oct. 14, 1902.

(No Model.)

2 Sheets—Sheet 1.



Witnesses
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No. 711,412.

Patented Oct. 14, 1902.

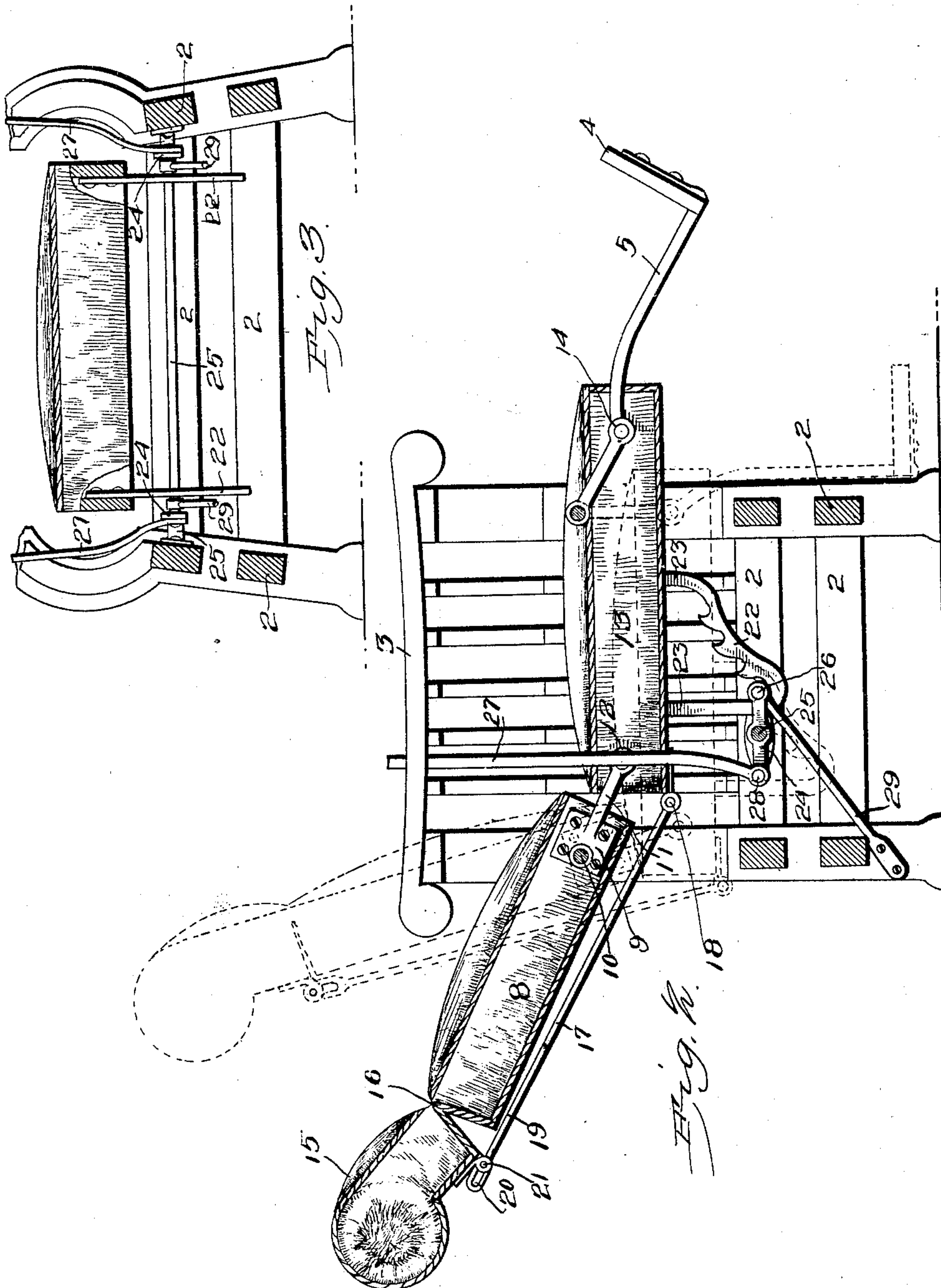
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ADJUSTABLE CHAIR.

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2 Sheets—Sheet 2.



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UNITED STATES PATENT OFFICE.

JOSEPH EDWARD ARCHAMBEAULT, OF SOUTH BEND, INDIANA.

ADJUSTABLE CHAIR.

SPECIFICATION forming part of Letters Patent No. 711,412, dated October 14, 1902.

Application filed January 13, 1902. Serial No. 89,545. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH EDWARD ARCHAMBEAULT, a citizen of the United States, residing at South Bend, in the county of St. Joseph and State of Indiana, have invented a new and useful Adjustable Chair, of which the following is a specification.

My invention is an improved adjustable chair having an adjustable seat, back, and foot-rest which may be adjusted to either a sitting or reclining position, according to the desire of the occupant; and it consists in the peculiar construction and combination of devices hereinafter fully set forth and claimed.

In the accompanying drawings, Figure 1 is a perspective view of an adjustable chair embodying my improvements, parts of the frame being broken away and shown in section. Fig. 2 is a side elevation, partly in section, of the same, showing the seat, foot-rest, and back disposed in reclining position and in dotted lines showing the same disposed in seating position. Fig. 3 is a transverse sectional view of the same.

In the embodiment of my invention I provide a suitable supporting-frame, which is here shown as comprising the legs 1, the bars 2, which connect the legs together, and the arms 3, which are disposed at the upper ends of the legs on opposite sides of the frame. A foot-rest 4 is carried by a pair of arms 5, which constitute the frame of the foot-rest, and the upper ends of the said arms are provided with pivots 6, which operate in bearings 7 in the legs at the front corners of the frame. Thereby the foot-rest is pivotally connected to and suspended from the frame and is adapted to be swung forwardly therefrom.

The back 8 of the chair in the embodiment of my invention here shown is provided on its sides at its lower corners with links 9, which are secured thereto and which at their upper ends are provided with pivots 10, which have their bearings in the legs at the rear corners of the frame. The said links are provided with extended arms 11, which are disposed parallel with the axis of the back, or substantially so, and the lower ends of the link-arms are pivoted, as at 12, to the sides of the seat 13, near the rear corners thereof.

It will be understood that the back is by the links 9 pivoted at its lower corners between the sides of the frame at the rear corners thereof and that the rear portion of the seat is supported by the said links. The arms 5 of the foot-rest are pivotally connected at a suitable distance from their upper ends to the sides of the chair-seat, near the front corners thereof, as at 14, and thereby the front portion of the seat is supported by the said arms of the foot-rest. Hence the chair-seat is adapted to be swung forwardly and rearwardly between the sides of the frame, and being connected by the links 9, which suspend and support its rear portion, to the back the latter swings simultaneously with the seat. It will be understood that the foot-rest swings simultaneously with the seat and back and that the latter forms a lever by means of which the occupant of the chair by leaning rearwardly may move the suspended chair-seat and the foot-rest forwardly and upwardly to dispose the back, seat, and foot-rest in reclining position, as shown in full lines in Fig. 2. The back is provided with a head-rest 15, which is hinged or otherwise flexibly connected thereto, as at 16. A rod 17 has its lower end pivotally connected to the rear side of the seat, as at 18, and its upper end bifurcated to form arms 19, each of which is provided with a slot 20. The said slots are engaged by keepers 21 on the rear side of the head-rest, so that lost motion is provided between the operating-rod 17 and the head-rest, and it will be understood that as the back and seat of the chair are adjusted to a reclining position the rod 17 will turn the head-rest upwardly at the upper end of the back, so as to raise somewhat and support the head of the occupant.

A pair of racks 22 are provided at their front and rear ends with arms 23, which are attached to the bottom of the seat and support the racks in an inclined position under the seat. A pair of yokes 24 are fulcrumed, as at 25, on the inner sides of the side bars of the chair-frame and have their front ends connected together by a transversely-disposed lock-bar 26, which is adapted to engage the teeth on the upper sides of the racks 22 to secure the seat, and hence also the back and foot-rest, at any desired adjustment. Trip-

rods 27 have their lower ends pivotally connected to the rearwardly-extending arms of the yokes 24, as at 28. The upper portions of the said trip-rod extend through and are
 5 guided in vertical openings in the chair-arms 3, the upper ends of said trip-rods projecting above the chair-arms a slight distance and being thereby adapted to be depressed to cause the lock-bar 26 to be raised by the yokes
 10 24 out of engagement with the racks 22, and thereby enable the chair to be adjusted to another position. Spring-arms 29 are here shown as having their outer ends secured to the inner sides of the rear chair-legs and
 15 their front ends connected to the locking-bar 26. The function of the said spring-arms is to keep the locking-bar normally in engagement with the locking-racks 22.

I do not desire to limit myself to the precise construction and combination of devices herein shown and described, as it is evident that modifications may be made therein without departing from the spirit of my invention.

25 Having thus described my invention, I claim—

1. In an adjustable chair, the combination of a frame, a foot-rest and back each pivotally connected thereto, a seat pivotally connected to and suspended and supported by
 30 the foot-rest and back, whereby the seat, back and foot-rest may be simultaneously adjusted, a head-rest flexibly connected directly to the back, and an operating-rod connecting the
 35 head-rest and seat, whereby the head-rest is automatically adjusted simultaneously with the back, seat and foot-rest, is extended from the back in line therewith when the back is raised and is turned upwardly at an angle to
 40 the back when the latter is lowered, substantially as described.

2. In an adjustable chair, the combination of a frame, a foot-rest and back, each directly pivoted thereto, a longitudinally - movable
 45 seat pivotally connected to and suspended and supported by the foot-rest and back, whereby the seat, back and foot-rest may be simultaneously adjusted, a downwardly and rearwardly inclined rack carried by the seat
 50 and a detent pivoted to the frame and adapted to engage the rack and thereby lock the seat,

back and foot-rest at any desired adjustment, substantially as described.

3. In an adjustable chair, the combination of a frame, having side arms, a foot-rest and
 55 back, each directly pivoted to said frame, a longitudinally - movable seat pivotally connected to and suspended and supported by the foot-rest and back, whereby the seat, back and foot-rest may be simultaneously adjusted, a downwardly and rearwardly inclined
 60 rack carried by the seat and having forwardly-extending teeth, a detent to engage the rack-teeth and pivoted to the frame, and a trip-rod connected to the detent and one of the
 65 arms of the frame, substantially as described.

4. In an adjustable chair, the combination of a frame, a longitudinally-movable seat, a back pivotally connected to the frame and to the seat whereby the seat and back are ad-
 70 justable simultaneously, an adjustable head-rest carried by and flexibly connected directly to the back, and connections between the head-rest and the seat whereby the head-rest is automatically adjusted simultaneously
 75 with the seat and back, is extended from the back in line therewith when the back is raised and is turned upwardly at an angle to the back when the latter is lowered, substantially
 80 as described.

5. In an adjustable chair, the combination of a frame, a longitudinally-movable seat, a back pivotally connected to the frame and to the seat, whereby the latter and back are ad-
 85 justable simultaneously, an adjustable head-rest carried by and flexibly connected directly to the back, and a yieldable connection between the head-rest and the seat, whereby the head-rest is automatically adjusted simultaneously
 90 with the seat and back, is extended from the back in line therewith when the back is raised and is turned upwardly at an angle to the back when the latter is lowered, substantially as described.

In testimony that I claim the foregoing as
 95 my own I have hereto affixed my signature in the presence of two witnesses.

JOSEPH EDWARD ARCHAMBEAULT.

Witnesses:

JOHN W. TALBOT,
 JOHN D. BURLEE.