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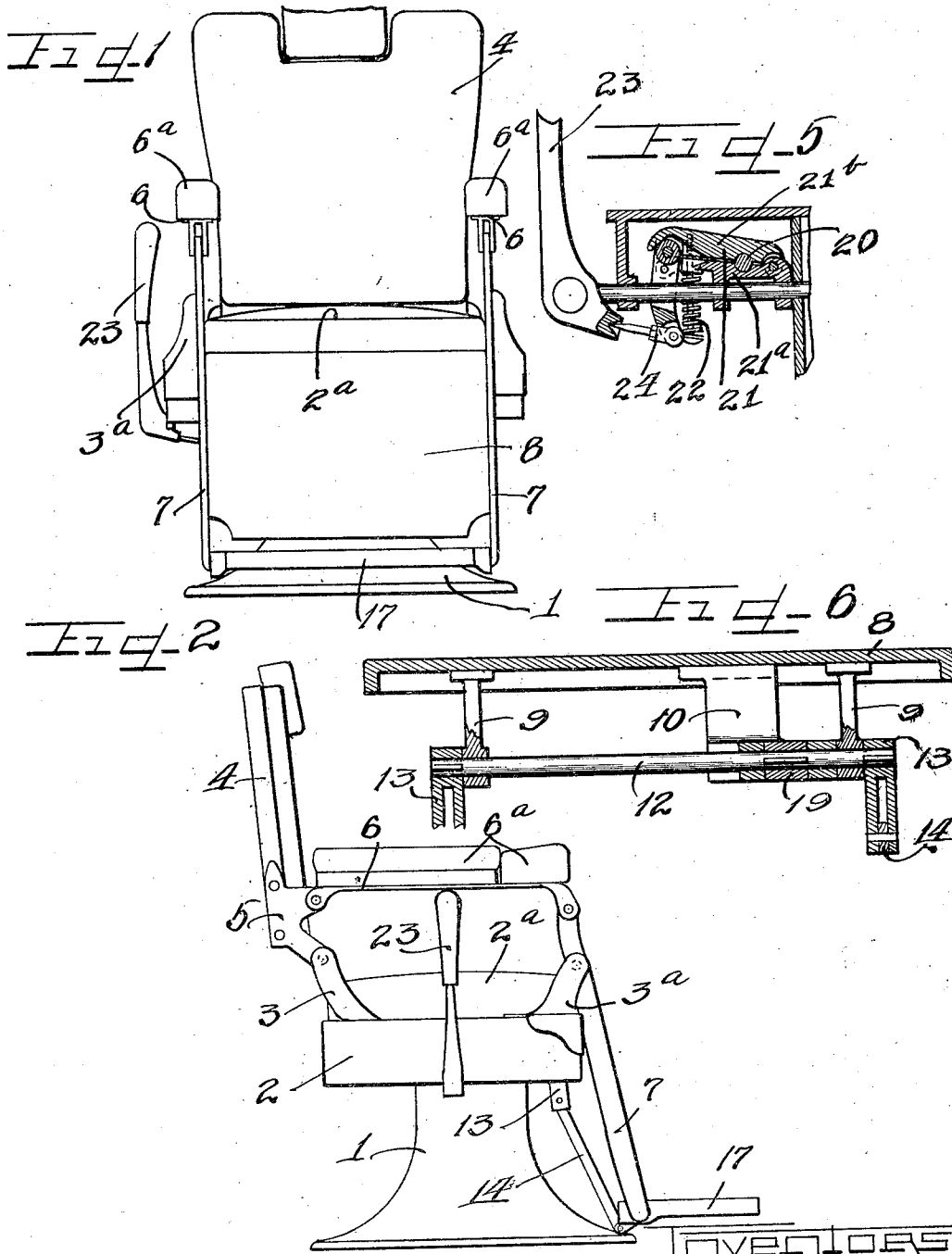
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J. R. EMMERT ET AL

AUTOMATIC ADJUSTABLE FOOT REST

Filed Aug. 12, 1927

2 Sheets-Sheet 1



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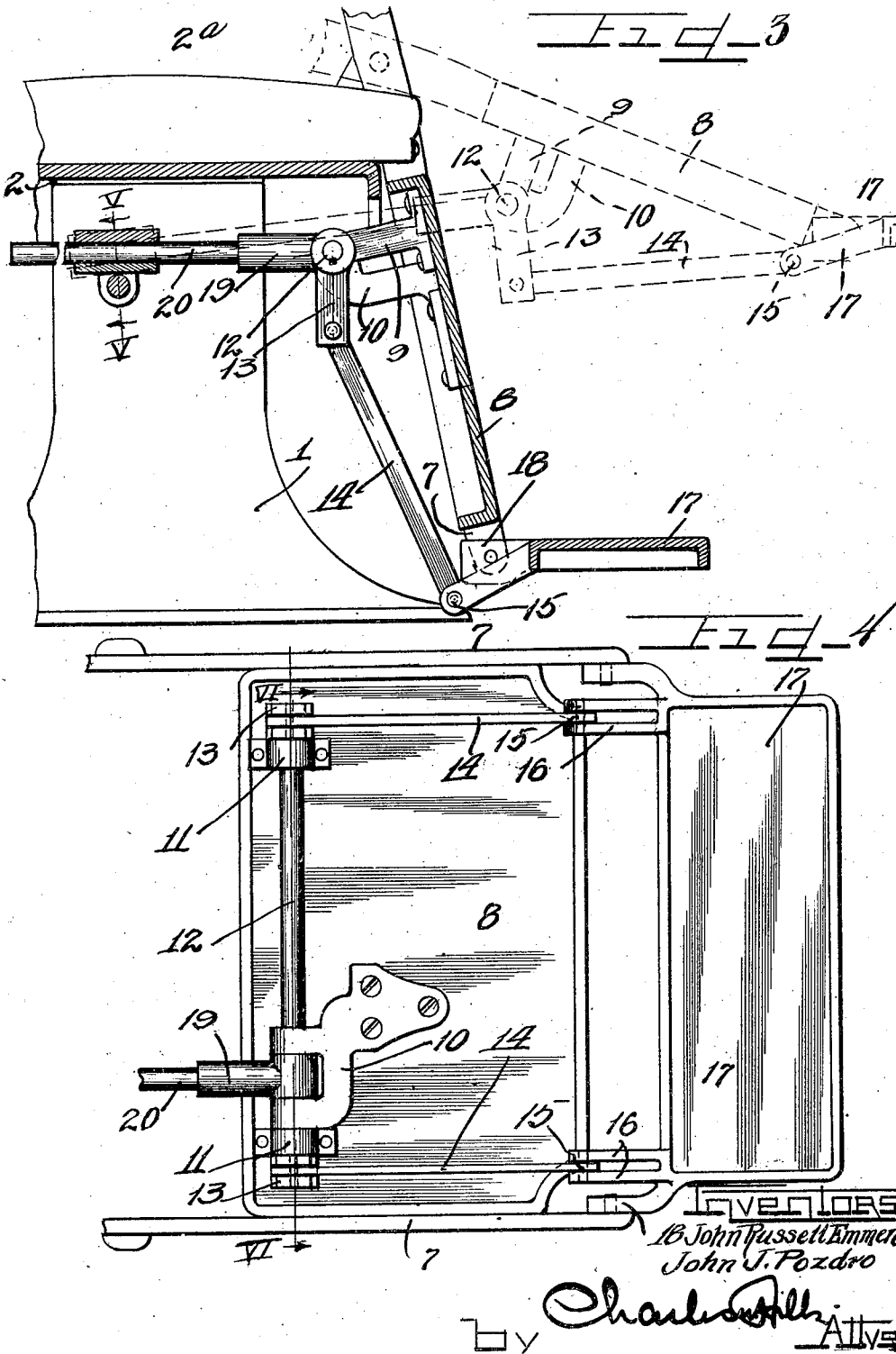
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2 Sheets-Sheet 2



UNITED STATES PATENT OFFICE.

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AUTOMATIC ADJUSTABLE FOOT REST.

Application filed August 12, 1927. Serial No. 212,372.

This invention relates to a reclining chair and concerns itself primarily with means for adjusting the combined leg rest and foot rest so that the same will always be comfortable for the occupant.

The invention comprises the novel structure and combination of parts hereinafter described and more particularly pointed out and defined in the appended claims.

In the accompanying drawings, which illustrate a preferred form of this invention and in which similar reference numerals refer to similar features in the different views:

Figure 1 is a front elevational view of a reclining chair involving this invention;

Figure 2 is a side elevational view of the chair.

Figure 3 is an enlarged fragmentary sectional view showing parts in elevation.

Figure 4 is an enlarged rear plan view of the leg rest and foot rest in extended position.

Figure 5 is an enlarged fragmentary sectional view taken substantially upon the line V—V of Figure 3.

Figure 6 is a sectional view taken upon the line VI—VI of Figure 4.

Referring to the drawings, it will be noted that the illustrated chair comprises the usual pedestal 1 which supports the seat rail 2 which is ordinarily rotatable, and which supports the cushion 2^a which in the present instance is not connected for a sliding movement as is common in barber chairs. A pair of brackets 3 (only one of which is shown) extend from the seat rail. The reclining back 4 of the chair is provided with two armed castings 5; one arm of each casting is pivoted to a bracket 3, while the other arms are pivoted to the arm rests 6 which are usually covered with pads 6^a. It will be noted that the back has no connection with the cushion 2^a. The forward ends of the arm rests are pivoted to the upper ends of the side bars 7 of the leg rest 8, which also has no connection to the cushion 2^a. These side bars are pivoted intermediate their ends to brackets 3^a rising from the seat rail.

The leg rest 8 is provided with a pair of rearwardly extending brackets 9 and an intermediate bracket 10. The terminals of the brackets 9 in connection with removable straps 11 form bearings for a shaft 12. The bracket 10 is provided with a bifurcated terminal, the arms of which also serve as bearings for the shaft 12 as shown in Figure 4.

It will be noted that the rod 12 extends at both ends beyond the brackets 9. Bifurcated hangers 13 are keyed upon the extended ends of the rod 12. Flat bars 14 are pivoted at their upper ends in the bifurcations of the hangers 13. The lower ends of the bars 14 are pivoted by pins 15 to downwardly inclined lateral arms 16 on a foot rest 17. It will be noted that there are a pair of lateral arms 16 at each lateral side of the foot rest and that each bar 14 is journaled upon the pin 15 between a pair of arms 16, whereby the bars 14 are confined against shifting movement.

The foot rest is also provided with lateral offset lugs 18 which are pivoted to the side bars 7 of the leg rest as shown in Figures 3 and 4.

A socket member 19 is keyed upon the aforementioned rod 12 between the arms of the bifurcated bracket 10. A rod 20 extends from the socket member 19 and passes through a clamp 21 shown in Figure 5. The clamp comprises a stationary member 21^a and a movable member 21^b which is normally held in operative position by a spring 22. The clamp is adapted to be released by a lever 23 connected to a form of toggle 24 engaging the movable clamp member. This clamping mechanism is, however, old and well-known and forms no part of this invention except as it may cooperate therewith.

When the rod 20 is released from the clamp, the back 4 of the chair may be tilted rearwardly to inclined position. During such movement of the back of the chair, the leg rest 8 will pivot upon the brackets 3^a to the position shown in dotted lines in Figure 3, the rod 20 sliding in and pivoting with its mounting. During this movement of the leg rest the foot rest 17 will of course be carried therewith, but on account of the pivotal connection of the inclined arms of the foot rest with the bars 14, said foot rest will have a turning movement with respect to the leg rest as it is being raised. This turning movement is, however, controlled by the bars 14 so that it will be raised in substantially horizontal position and will remain in such position when the leg rest is fully elevated. This operation arises from the fact that the socket 19 and bifurcated arms 13 are keyed upon the shaft 12 and bars 14 must act as radius rods with respect to their pivotal supports.

It will hence be apparent that this inven-

tion provides mechanical means for automatically controlling the foot rest and maintaining the same horizontal during the elevating movements of the leg rests, and after the elevation thereof. In the past these foot rests have generally been manually adjusted.

The combined foot rest and leg rest have the proper relation in all positions of adjustment to afford the most comfort for the occupant of the chair.

We are aware that many changes may be made, and numerous details of construction may be varied through a wide range without departing from the principles of this invention, and we therefore do not purpose limiting the patent granted hereon, otherwise than necessitated by the prior art.

We claim as our invention:

1. In a reclining chair, a swingable leg rest, a foot rest pivoted to said leg rest, a transverse shaft rotatably carried by said leg rest, arms keyed upon said shaft, links pivot-

ally connecting said arms and foot rest, a socket keyed upon said shaft, a rod secured in said socket and means for slidably and pivotally supporting said rod.

2. In a reclining chair, a swingable leg rest, a foot rest pivoted to said leg rest, a shaft rotatably carried by said leg rest, a slidably and pivotally mounted rod having one end fixedly secured to said shaft, an arm keyed upon said shaft, and a link member pivotally connecting said arm and foot rest.

3. In a reclining chair, a swingable leg rest, a slidable and pivotally mounted supporting means therefor, a foot rest pivoted to said leg rest, an arm rigid upon said supporting means, and a link pivotally connecting said arm and foot rest.

In testimony whereof, we have hereunto subscribed our names at Chicago, Cook County, Illinois.

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