(No Model.) 2 Sheets—Sheet 1.

S. G. SCARRITT & J. H. MOSLEY.

TILTING AND RECLINING CHAIR.

No. 366,514. Patented July 12, 1887.

Fig. 1.

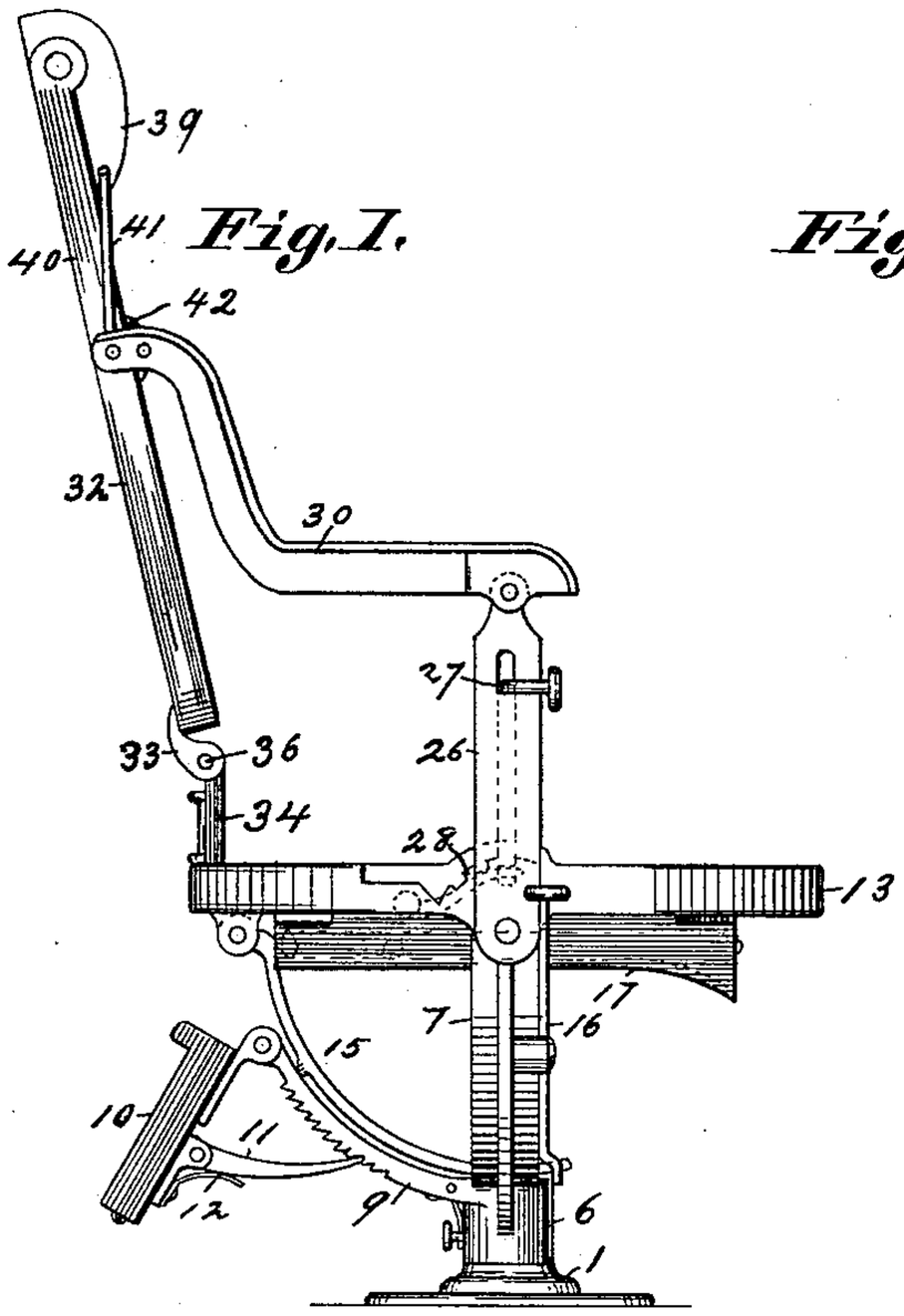


Fig. 2.

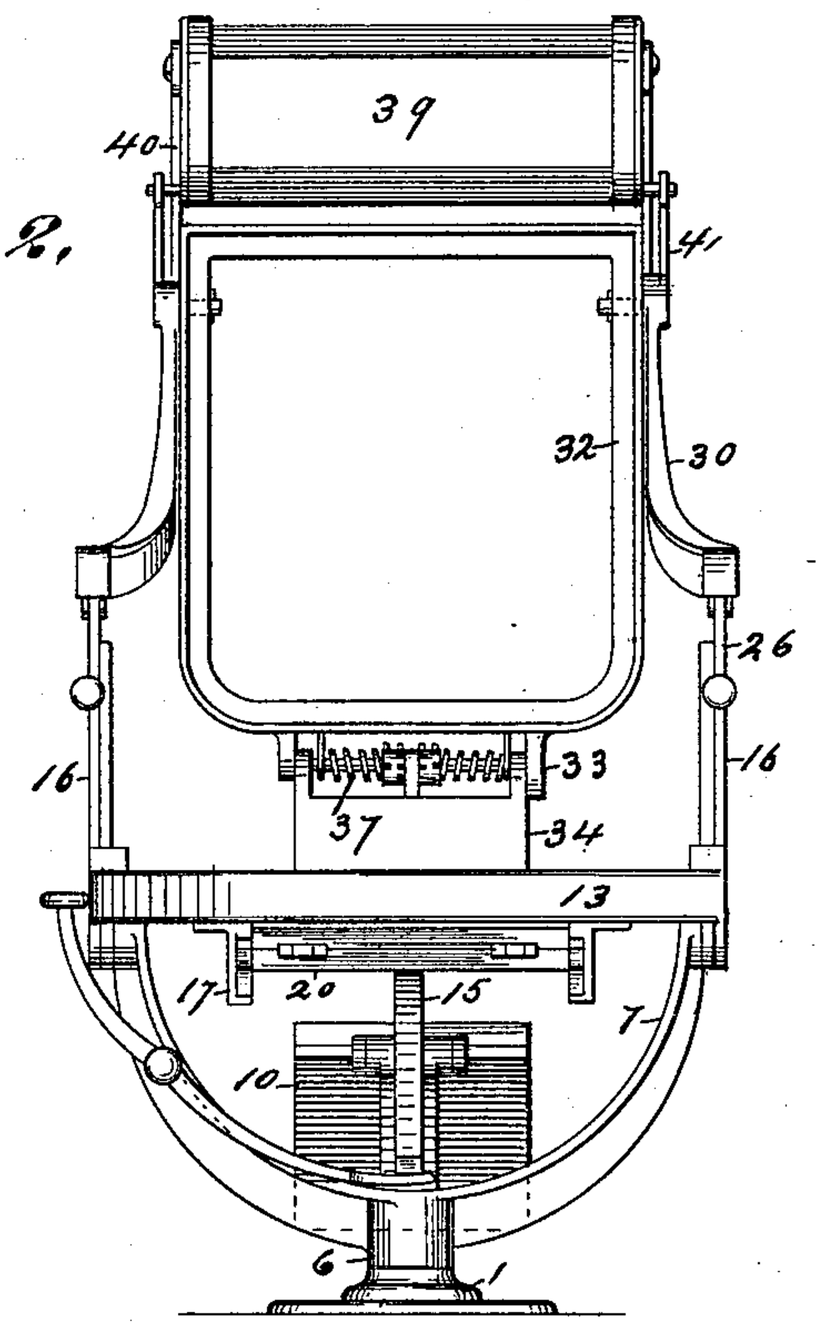
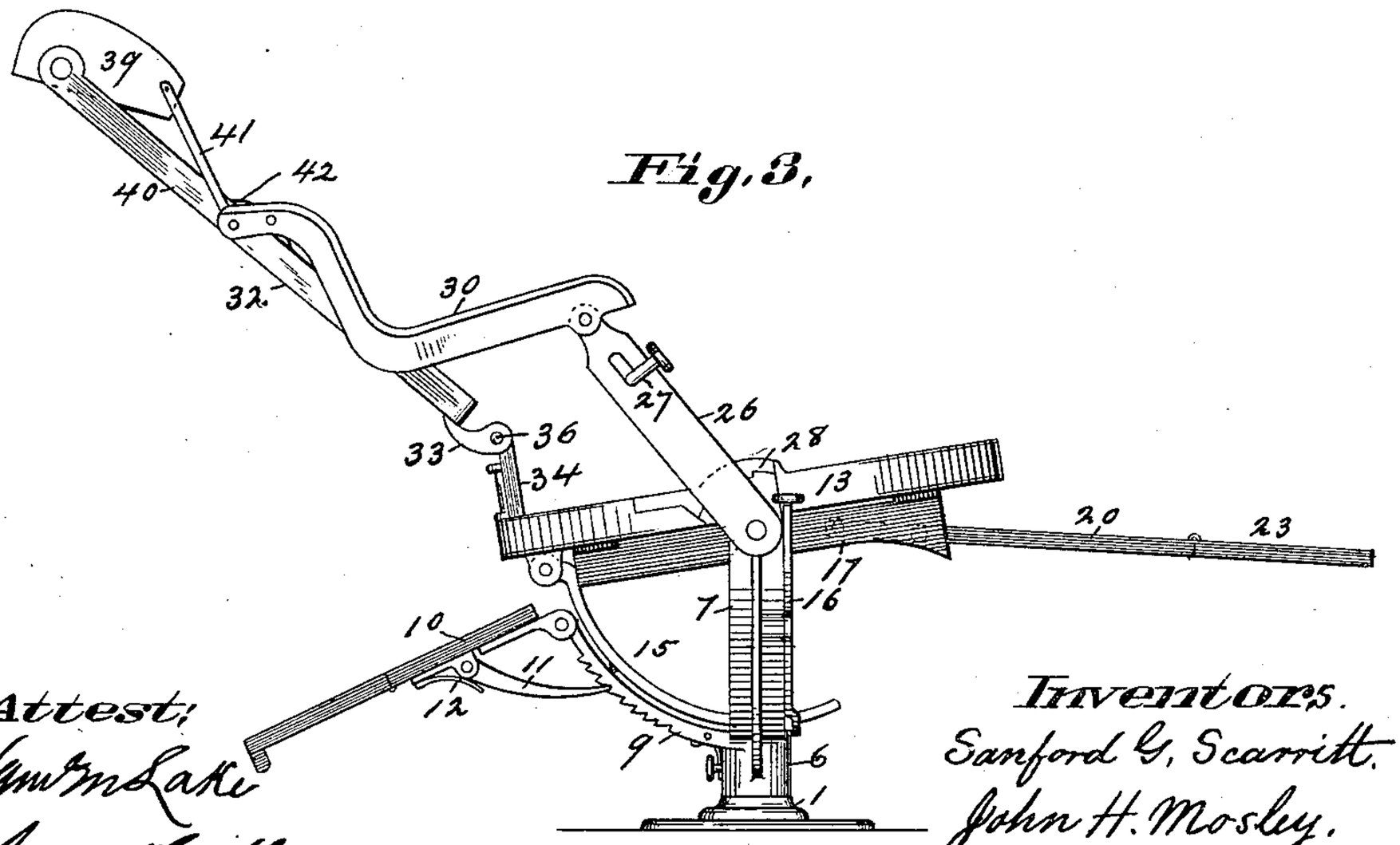


Fig. 3.



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(No Model.) 2 Sheets—Sheet 2.

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Fig. 4.

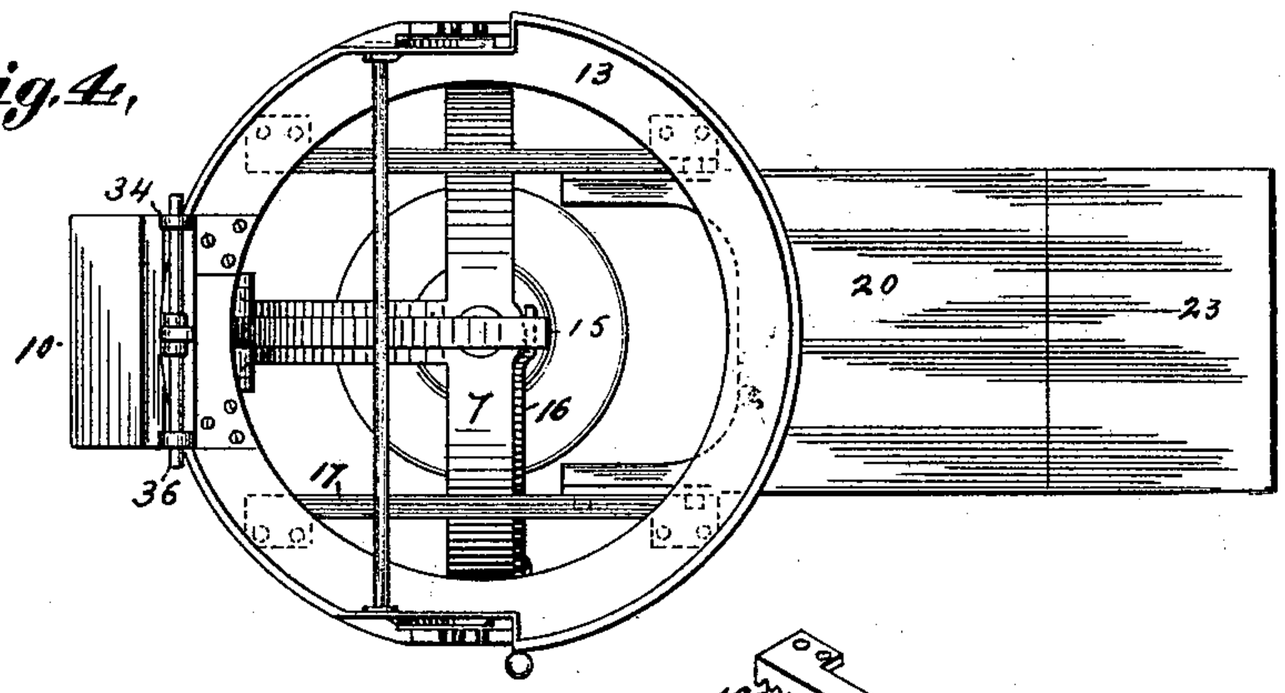


Fig. 5.

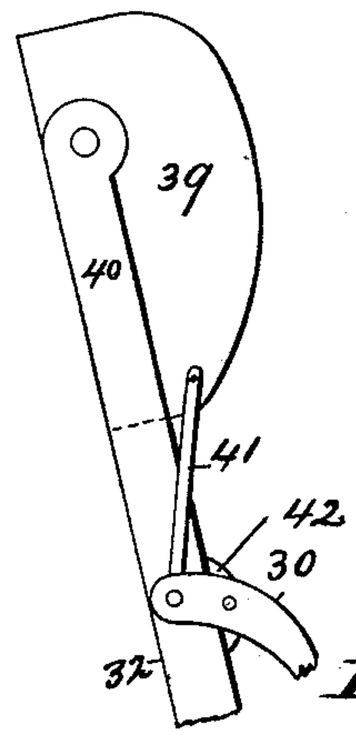


Fig. 6.

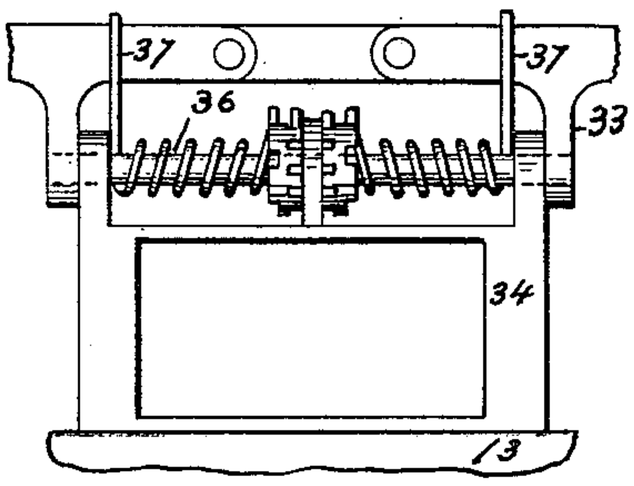


Fig. 7.

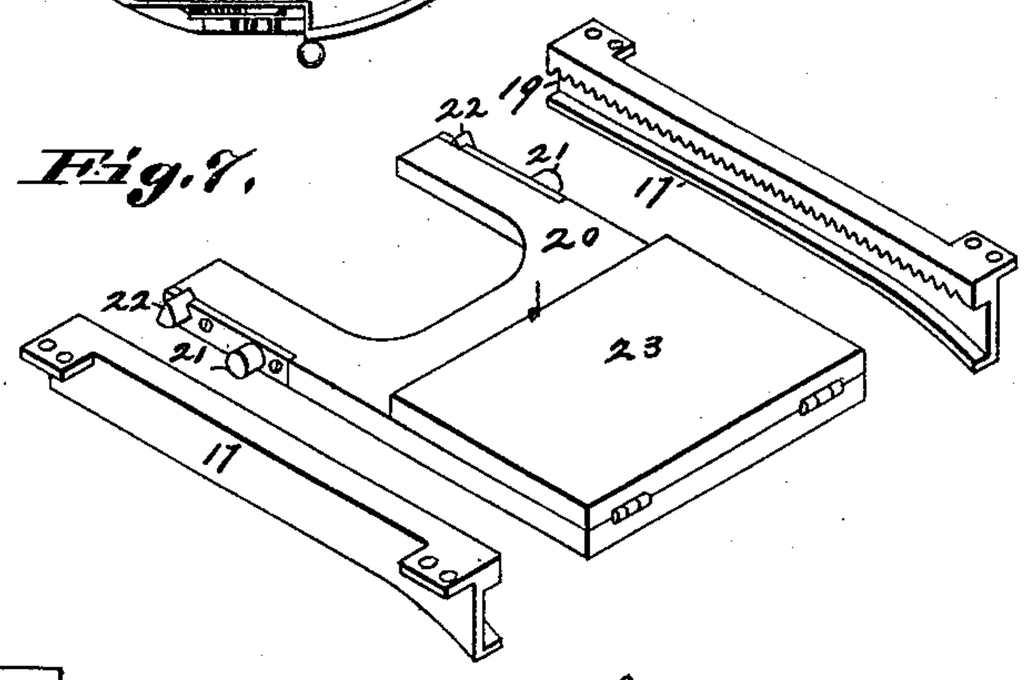


Fig. 8.

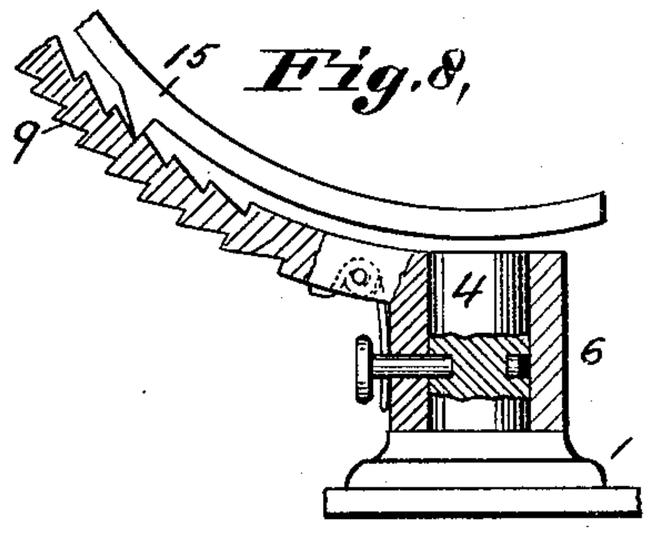


Fig. 9.

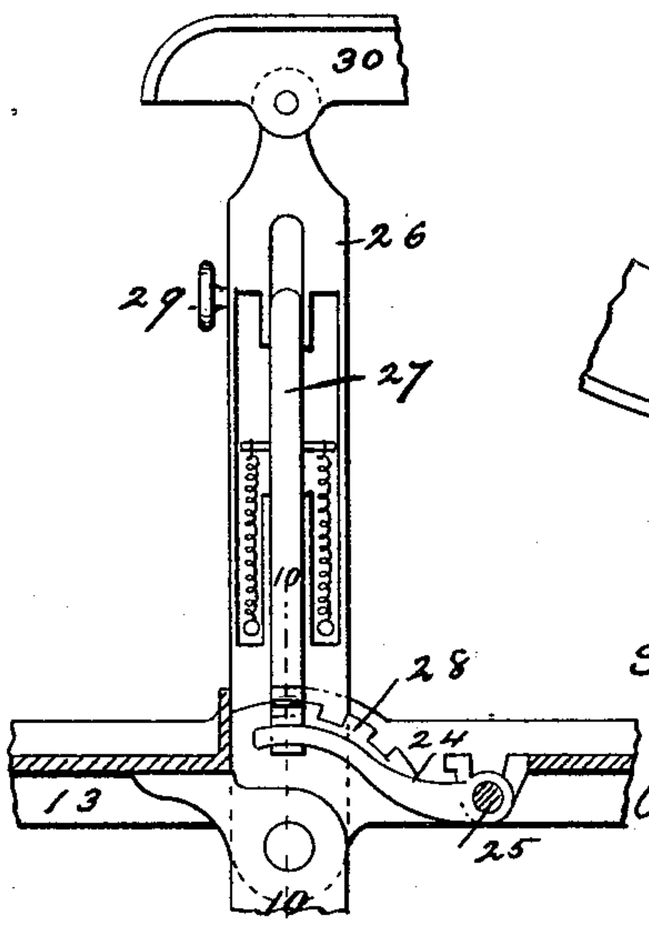


Fig. 10.

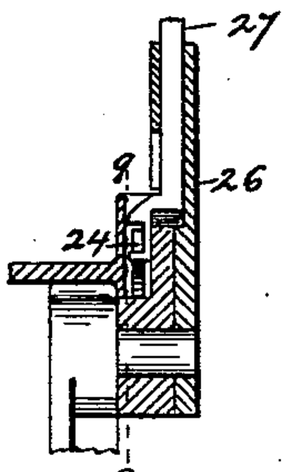
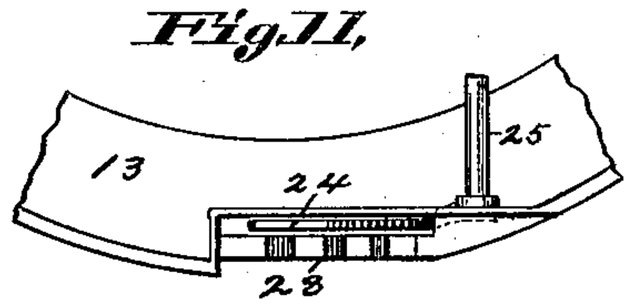


Fig. 11.



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UNITED STATES PATENT OFFICE.

SANFORD G. SCARRITT AND JOHN H. MOSLEY, OF ST. LOUIS, MISSOURI;
SAID MOSLEY ASSIGNOR TO SAID SCARRITT.

TILTING AND RECLINING CHAIR.

SPECIFICATION forming part of Letters Patent No. 366,514, dated July 12, 1887.

Application filed February 12, 1887. Serial No. 227,379. (No model.)

To all whom it may concern:

Be it known that we, SANFORD G. SCARRITT and JOHN H. MOSLEY, citizens of the United States, residing at St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Tilting and Reclining Chairs; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

The object of our invention is to secure, in combination, a tilting and reclining chair provided with an adjustable head-rest.

The invention consists in the construction and arrangement of its several operative parts, as will be hereinafter shown and described.

In the drawings, Figure 1 is a side elevation of our improved chair in its normal position, showing foot-rest attachment thereon. Fig. 2 is a front elevation. Fig. 3 is a side elevation showing the seat tilted, the back inclined, head-rest thrown forward, and foot and leg rests extended. Fig. 4 is a top plan view of the seat-frame with back and arms removed, showing foot and leg rests extended. Fig. 5 is an enlarged view showing in detail the head-rest and operating parts connected therewith. Fig. 6 is an enlarged view of the standard which supports the back and the righting-spring connected therewith. Fig. 7 is a detached perspective view of the leg-rest and connecting parts. Fig. 8 is a detail view of the base of the chair, showing segmental rack and the seat-frame dog, which engages therewith. Fig. 9 is an enlarged detail view of pivoted arm-standards and operating parts connected therewith, drawn on line 9 9 of Fig. 10. Fig. 10 is a vertical section of a portion of the arm-standard and connecting parts, drawn on line 10 10 of Fig. 9. Fig. 11 is an enlarged detail plan of a portion of the seat-frame, showing the rack and the lever carried by the transverse shaft.

Like figures indicate like parts.

1 is the base of the chair, having connected therewith vertical post 4. The hub 6, to which supporting-arms 7 are rigidly attached, has a rotary movement on the vertical post, said post forming the pivotal center of the chair.

The seat frame 13 is pivoted on each side to the supporting-arms, so as to permit the tilting of the seat. The arm-standards 26 are pivoted at the same point. These standards are capable of being inclined rearward, and support the forward ends of the arm-rests 30, the other end of the rests being curved upward and pivoted to the chair-back 32. This back is connected with the seat-frame by means of transverse rod 36, passing through standards 34 and ears 33, the standards being secured to the seat-frame and the ears to the base of the chair-back. The righting-spring 37 is spirally wound around the transverse rod, one end of the spring being secured to the standards by tension-collars thereon, the other end resting against the rear of the chair-back at its base.

The head-rest 39 is pivoted above the line of its center longitudinally between the extension-pieces 40, secured to the chair-back 32, and is operated by arm-rest 30, through the connecting link 41, said link being pivoted to the end and lower part of the head-rest and to the rear end of the arm-rest, as shown in Figs. 1, 2, 3, and 5.

The arm-rests are pivoted at one end to the upper part of the standards 26 and at the other end to supporting-brackets attached to and projecting forward from the side bars of the chair-back, a portion of the arm-rests extending beyond the bracket pivot, forming thereby a lever-arm, to which the head-rest is connected by links 41. It will be seen that this construction is an improvement over that shown in Patent 337,521, issued to Sanford G. Scarritt May 9, 1886, as the pivoting of the arm-rests to the projecting brackets carries the pivotal point on said brackets when the back is inclined relatively above the point of intersection of the side bars of the back and the arm-rests when both are in their normal position. We thus retain the level of the arm-rests when the back is inclined, secure the desired movement of the head-rest, and prevent any portion

of the lever-arm or connecting-link thereon from projecting beyond the rear line of the chair-back, and this with shorter arm-rests and connecting links than have been hitherto used for a like purpose.

The leg-rest 20, provided with hinged leaf 23, has a back-and-forth sliding movement on flanged slides 17, through supporting-lugs 21. The slides are provided with rack-bar 19, the locking-lugs 22 being held in engagement therewith by the tendency downward of the free or front end of the leg-rest.

The extension of the leg-rest is effected by slightly elevating the front end, thus lowering the locking-lugs below the line of the teeth of the rack-bar. When in this position, the rest can easily be drawn out. The outer or front ends of the slides have a slight curvature downward, so as to provide for the necessary inclination of the leg-rest when extended, as shown in Fig. 3. These slides may be secured to the under side of the seat-frame in any approved manner.

The foot-rest 10 is preferably made to fold upon itself. It is pivoted to the two-faced rack-arm 9 on hub 6. The desired position of the foot-rest on this rack-arm is secured by means of dog 11, held in engagement with the rack-teeth by spring 12.

The seat-frame is pivoted between the supporting-arms 7, and held in position by the engagement of dog 15 with the upper teeth on the rack-arm 9. The seat is tilted by pressing down on lever 16, fulcrumed on the supporting-arms 7. By this means the free end of the dog-arm, which engages with the lever, is lifted and the dog carried out of engagement.

The arm-standards and chair-back are locked in position by spring-dog 27, engaging with the segmental-rack 28, rigidly attached to the seat-frame. The engaging end of the dog is provided with a recess or slot, into which the lever 24, carried on shaft 25, rests. The shaft having a similar lever at its opposite end, the lifting of the dog by knob 29 on either side of the chair carries both dogs at the same time out of engagement and allows the arm standards and back to be inclined.

What we claim as new, and for which we ask Letters Patent of the United States, is—

1. The combination, with a seat-frame, of a hinged back, said back provided with supporting-brackets 42, attached to and projecting forward from the side bars of said back, arm-standards pivoted at their lower end to the front part of said seat-frame, arm-rests pivoted at one end to the upper part of the arm-standards and at the other end to the projecting brackets 42, a portion of said arm-rests extending beyond the pivotal point on the brackets, forming a lever end thereby, a head-rest pivoted between the upper ends of the side bars of the chair-back, and connecting-links pivoted at each end to the head-rest and the lever ends of the arm-rests, respectively, substantially as set forth and described.

2. The combination, with a seat-frame, of a hinged back, said back provided with brackets 42, attached to and projecting from the side bars of said back, as shown and described, arm-standards pivoted at their lower end to each side of the front part of the seat-frame, arm-rests pivoted at one end to the upper part of said standards and at the other end to the projecting brackets 42, a portion of the arm-rest extending beyond the pivotal point on the brackets, forming a lever end thereon, a head-rest pivoted between the extension ends of the upper portion of the side bars of the chair-back, connecting-links pivoted to the head-rest and the lever ends of the arm-rests, and means for locking the pivoted standards and chair-back in their normal and inclined positions, substantially as set forth.

3. The combination, with a chair-base, the supporting arms thereon, and a seat-frame pivoted between said arms, forming a tilting seat, of a hinged back provided with brackets 42, attached to and forwardly projecting from the side bars of said back, arm-standards pivoted at their lower end to the front part of each side of the seat-frame, arm-rests pivoted at one end to the upper end of the arm-standards and at the other end to the projecting brackets 42, a portion of said arm-rests extending beyond the pivotal point on said brackets, forming a lever end thereon, a head-rest pivoted between the upper extension ends of the side bars of the chair-back, connecting-links pivoted to the head-rest and lever ends of the arm-rests, respectively, and means, substantially as set forth and described, for holding the chair-back, the pivoted arm-standards, and the tilting seat in their normal or inclined positions.

4. The combination, with a seat-frame, of slides 17, slightly curving downward at their front ends and provided with ratchet-teeth 19, leg-rest 20, having folding leaf 23, supporting-lugs 21, and locking-lugs 22, arranged and operating substantially as set forth and described.

5. The combination, with a seat-frame, of supporting-arms 7, pivoted thereto, hub 6, base 1, supporting vertical post 4, pivoted dog 15, lifting-lever 16, double-face rack-bar 9, and foot-rest 10, pivoted to the free end of said rack-bar and provided with dog 11 and spring 12, substantially as set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

SANFORD G. SCARRITT.
JOHN H. MOSLEY.

Witnesses:
STEPHEN SULLIVAN,
FREDERICK W. HUNN.