W. HEATH.

RECUMBENT-CHAIR.

No. 174,627. Patented March 14, 1876.

Fig. 1.

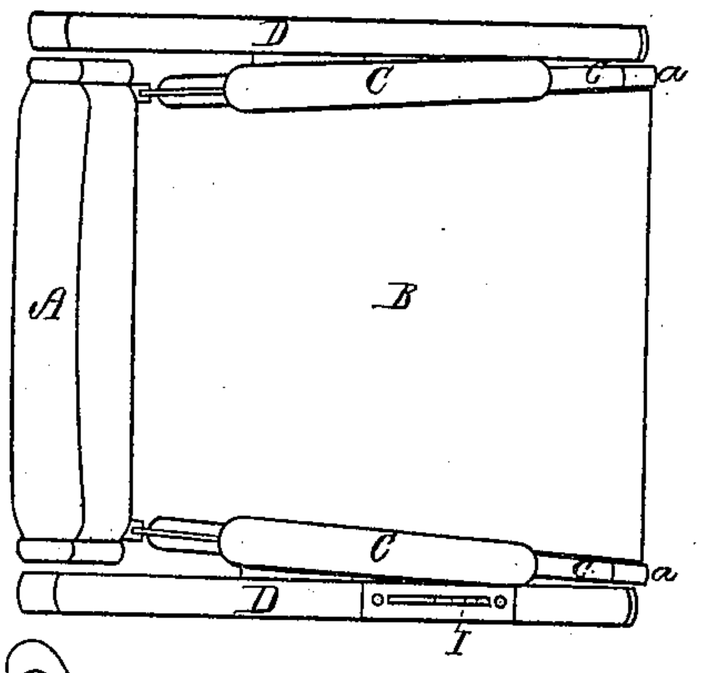


Fig. 4.

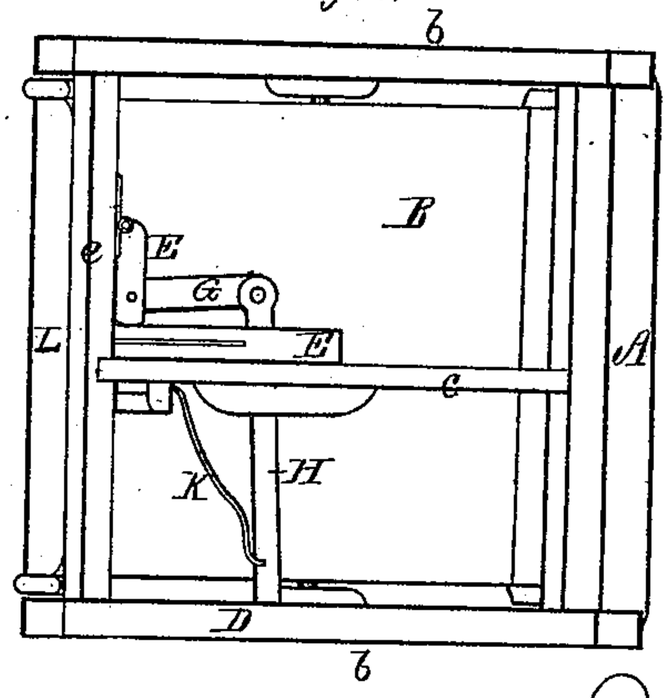


Fig. 2.

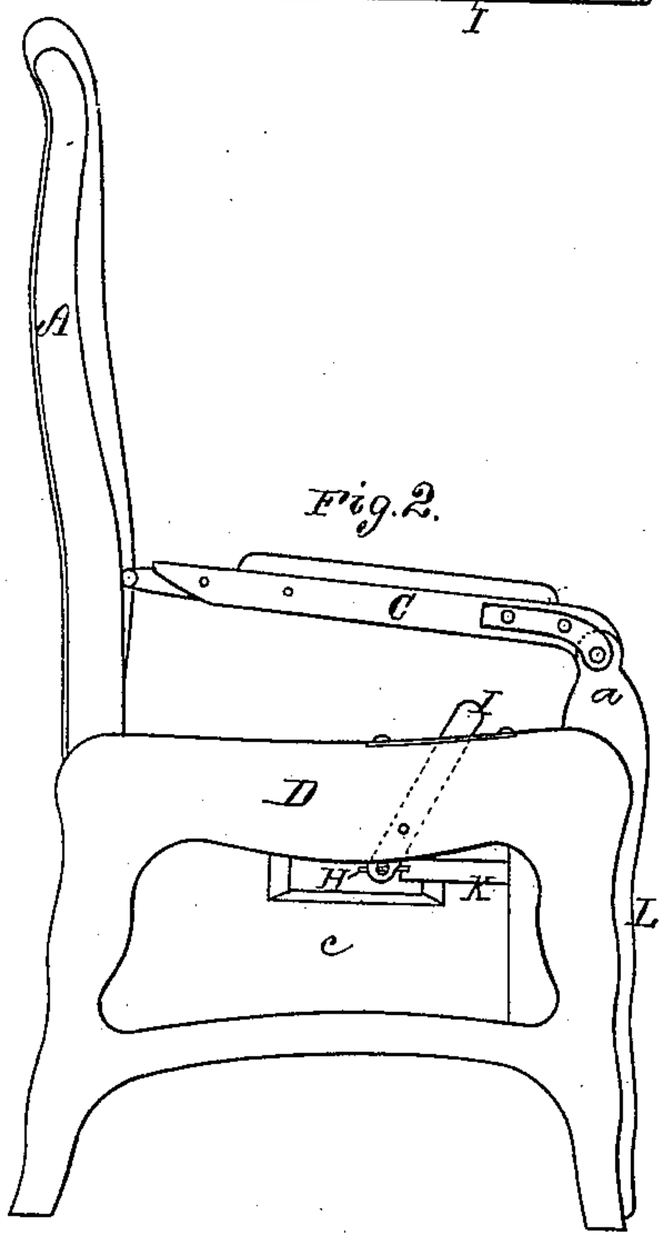


Fig. 3.

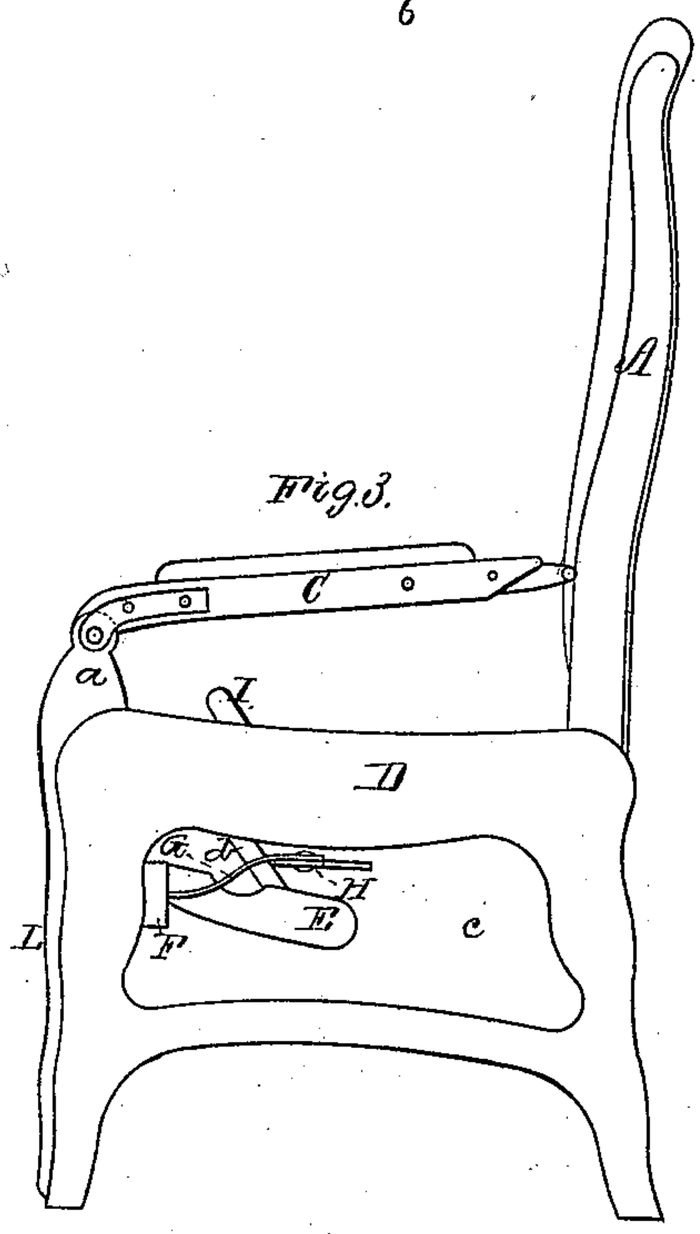
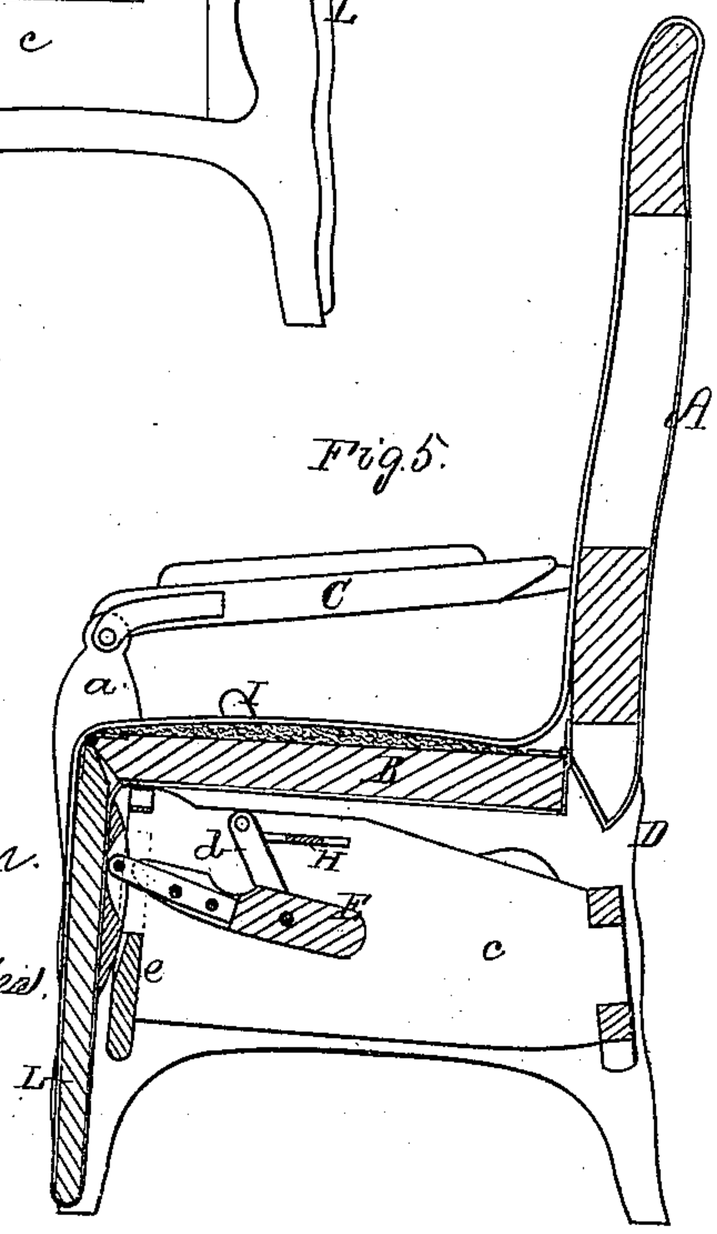


Fig. 5.



Witnesses

S. N. Piper.

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William. Heath.

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UNITED STATES PATENT OFFICE.

WILLIAM HEATH, OF BATH, MAINE.

IMPROVEMENT IN RECUMBENT CHAIRS.

Specification forming part of Letters Patent No. **174,627**, dated March 14, 1876; application filed June 15, 1875.

To all whom it may concern:

Be it known that I, WILLIAM HEATH, of Bath, of the county of Sagadahoc and State of Maine, have invented a new and useful Improvement in Recumbent Chairs; and do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a top view, Figs. 2 and 3 opposite side elevations, Fig. 4 an under-side view, and Fig. 5 a longitudinal section, of a chair provided with my invention.

In this chair the back A and the seat B are to be or are hinged together, and the seat is provided with a leg-rest, L, which should also be hinged to the seat and have arms *a a* extending up from it and jointed to the chair-arms C C, such chair-arms at their rear ends being jointed to the back A. The seat, at or near the middle of each end, I pivot to the support-frame D, the pivots being shown at *b b*, and I provide such seat-frame with a deep tie or board, *c*, extending across it longitudinally near its middle, as shown. Against one side of the board *c* I arrange a friction-arm, E, pivoted at its outer end to the leg-rest, such arm being connected with the board *c* by a pendulous connection-bar, *d*, pivoted to the friction-arm and to the board *c*. To operate with the friction-bar there is a friction-toggle, F, which, arranged as shown, is hinged to the front bar *e* of the frame D, and is connected to a lever, H, by a bar, G, which is pivoted to both toggle and lever. The said lever goes through the part *c*, and is fulcrumed thereto and jointed to another lever, I, arranged in the frame D in manner as shown. A spring, K, fixed at one end to the board *c*, bears against the longer arm of the lever H.

From the above it will be seen that not only is the chair-seat capable of being tilted more or less, but it and the back and the leg-rest may be held in any desirable positions, inclined or otherwise, by means of the friction-arm and toggle, the spring serving to keep the toggle forced up to the friction-arm, and the system of levers enabling a sitter to move the toggle back, so as to enable the friction-arm to readily move with the leg-rest.

By having the seat pivoted at its ends to the frame it will operate to better advantage than if rigidly fixed thereto; but it may be rigidly fixed to the frame, the chair being in other respects as described.

I claim—

1. In a recumbent chair having attached to its seat B a movable back, A, and a leg-rest, L, connected by arms C C *a a*, as described, a friction-arm, E, applied to the leg-rest and support-frame B, as set forth, in combination with a clamp or toggle, F, applied to said support-frame and friction-arm, and provided not only with a spring, K, to force it toward the friction-arm, but with levers H I for drawing it away therefrom, all substantially as described.

2. The seat, pivoted, at or near the middle of its ends, to the support-frame, in combination with the back and leg-rest pivoted to such seat, and with the friction-arm and the clamp-toggle applied to the leg-rest and support-frame, all being substantially as specified, and the clamp-toggle having a spring and system of levers for operating it, as explained.

WILLIAM HEATH.

Witnesses:

EZRA CUNNINGHAM,

THOMAS LEONARD.