

E. C. RANKS.
Reclining Chairs.

No. 143,299.

Patented September 30, 1873.

FIG. 1.

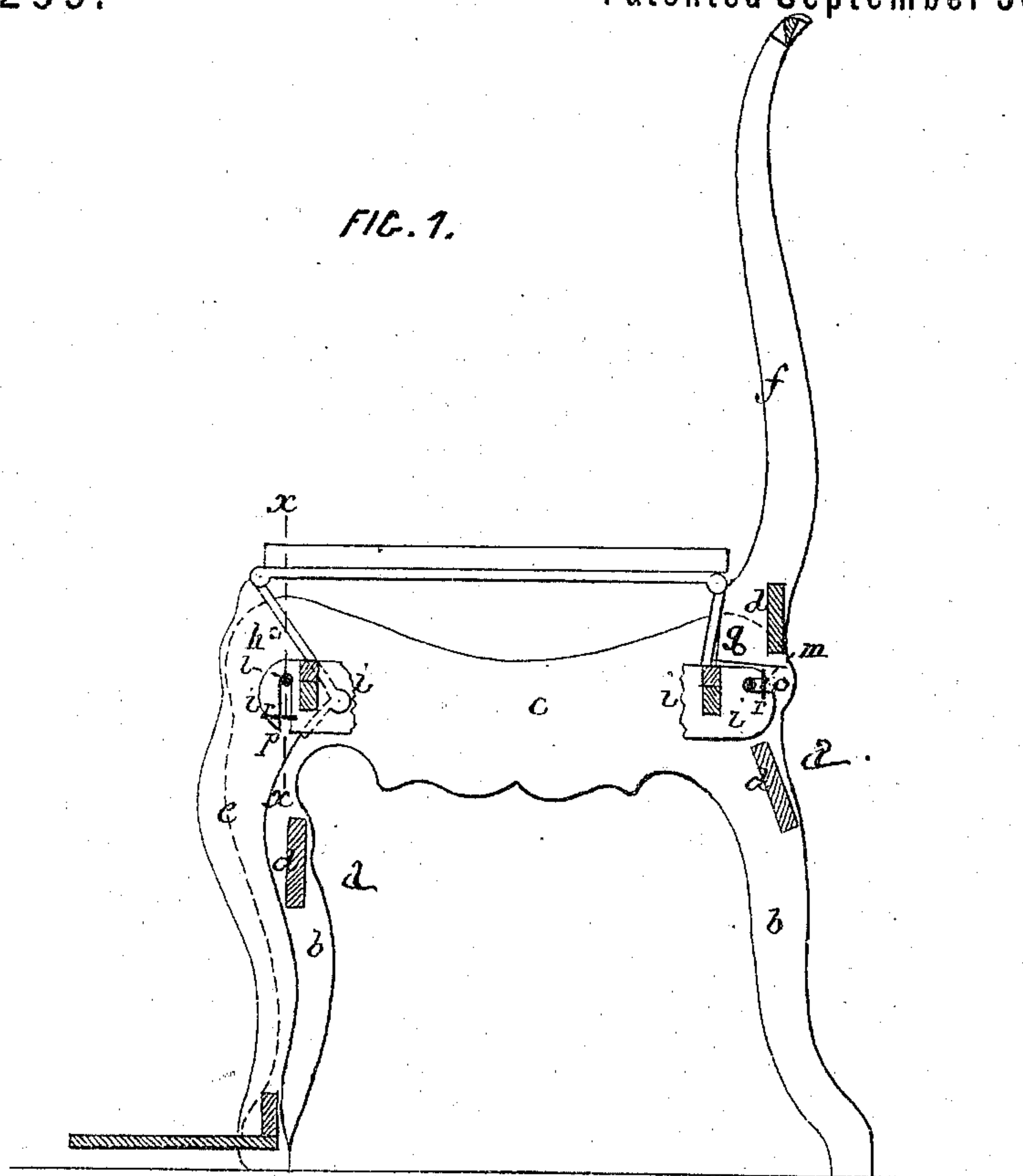
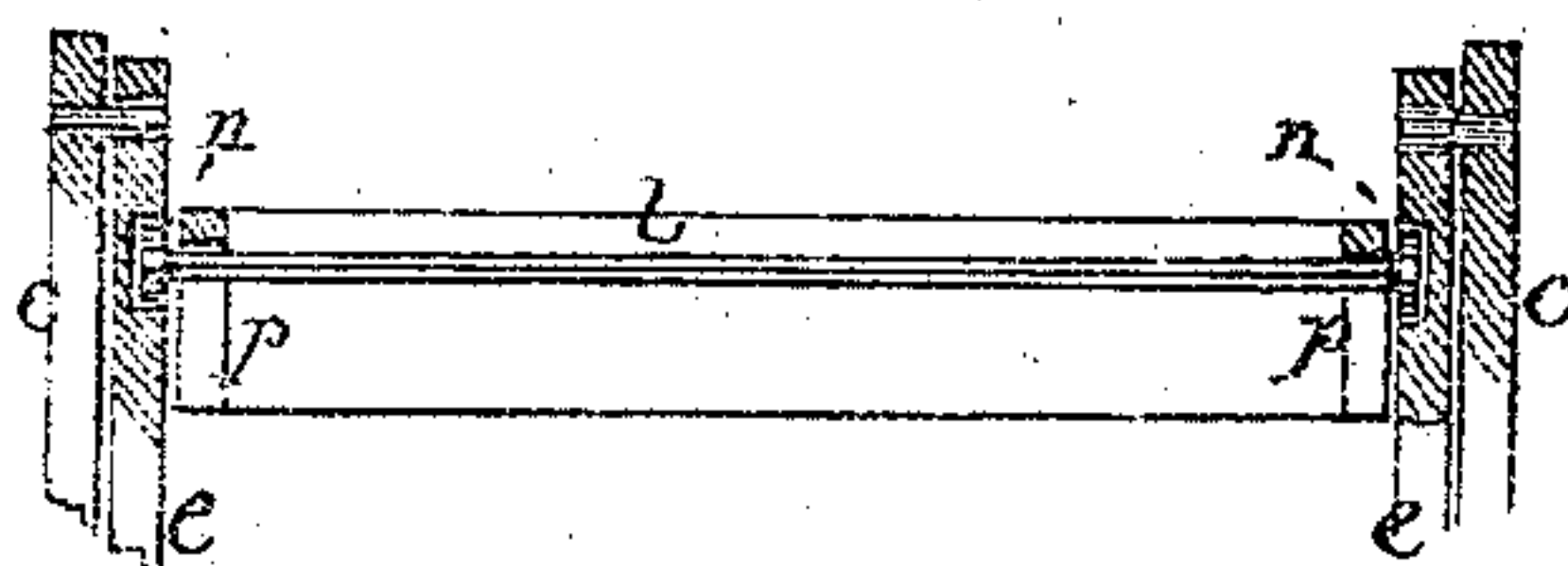


FIG. 2.



WITNESSES.

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ELISHA C. RANKS, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN RECLINING-CHAIRS.

Specification forming part of Letters Patent No. 143,299, dated September 30, 1873; application filed March 14, 1873.

To all whom it may concern:

Be it known that I, ELISHA C. RANKS, of Boston, in the county of Suffolk and State of Massachusetts, have invented a certain new and useful Improvement in Reclining-Chairs, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing forming part of this specification.

The present invention relates to that class of reclining-chairs in which the seat-frame, the back-frame, and the arms are jointed together, the seat moving slightly forward and the arms back as the sitter moves from upright sitting posture to a reclined position. It relates particularly to the manner of suspending the seat-frame to and within the foot-frame and back-frame, and its object is to facilitate the insertion and removal of the seat-frame, and to secure a firmer, stronger, and more reliable attachment of the seat within the chair.

In the accompanying plate of drawings my improvement in reclining-chairs is illustrated, Figure 1 being a vertical section from front to rear of chair, showing the parts in place for a person to sit in an upright position; Fig. 2, a section in plane of line *x x*, Fig. 1.

a in the drawings denotes the stool, or stationary part of the chair, composed of the legs *b*, outer side rails *c*, and cross-bars *d*; *e*, the swinging frame which supports the feet and legs when the chair is extended. *f* is the swinging back or back-frame. The back is pivoted at bottom to the outer side rails *c* by pins *g*, and the frame *e* to the outer side rails *c* by pins *h*, the frame *f* swinging freely back and the frame *e* freely forward on their respective pivots. Just below the pivot-pins *g h* the inner side rails *i* of the chair-seat are hung to the inside of frames *e f* upon rods *l m*. These rods *l m* are located, the one, *l*, at the leg-frame and the other, *m*, at the back-frame, and in each case extend across the entire width thereof, and, by heads or collars *n*, are sunk within sockets of corresponding shape therein. As before stated, upon these rods *l m* the inner side rails *i* of chair-seat are suspended, (the rods being located, as above described, as the leg-frame and back-frame are made;) and in order to allow the chair-seat to be inserted,

its inner side rails *i* at the one end are fork-shaped, as shown at *o*, and at the other end provided with a notch, *p*, on the under side or edge, the forked shape being at the rear ends of said inner side rails *i*.

In locating the chair-seat upon the rods *l m* it is first placed by the rear forked ends of inner side rails upon the cross-rod *M* of the back-frame, when, by simply allowing the front end to fall, it will, by the notches *p* of inner side rails *i*, come into place upon the cross-rod *l* of the leg-frame, completing the setting of the chair-seat.

The advantages of my improved arrangement of rods *l* and *m* and construction of chair-seat rails are, that an easy and ready insertion and removal of chair-seat is secured, and a strong and durable support of the seat is obtained across its entire width.

Previous to this invention the chair-seat was simply hung upon pivots of the leg-frame and back-frame.

If deemed desirable, the chair-seat may be fastened in position on the rods *l* and *m*, either one or both, by closing their open notches with straps or pins, as, for instance, shown at *r*, Fig. 1.

It may be well to here remark that, in lieu of "forking" the rear ends of side rails *i*, as described, they may be notched, as described, for the front ends; but it is preferable to fork them, as it allows the back edge of chair-seat to extend, as desired, under the lower edge of chair-back.

Having thus described my invention, I shall state my claim as follows:

What I claim, and desire to secure by Letters Patent, is—

The rods *l m*, in combination with side rails *i* of chair-seat, having notches *o p*, the swinging leg-frame *e*, and the swinging back-frame *f*, substantially as described, for the purpose specified.

The above specification of my invention signed by me this 8th day of April, A. D. 1871.

E. C. RANKS.

Witnesses:

C. A. PEASE,
EDWIN W. BROWN.