

(No Model.)

2 Sheets—Sheet 1.

R. LUNDBERG.
SOFA BED.

No. 497,191.

Patented May 9, 1893.

Fig: 1.

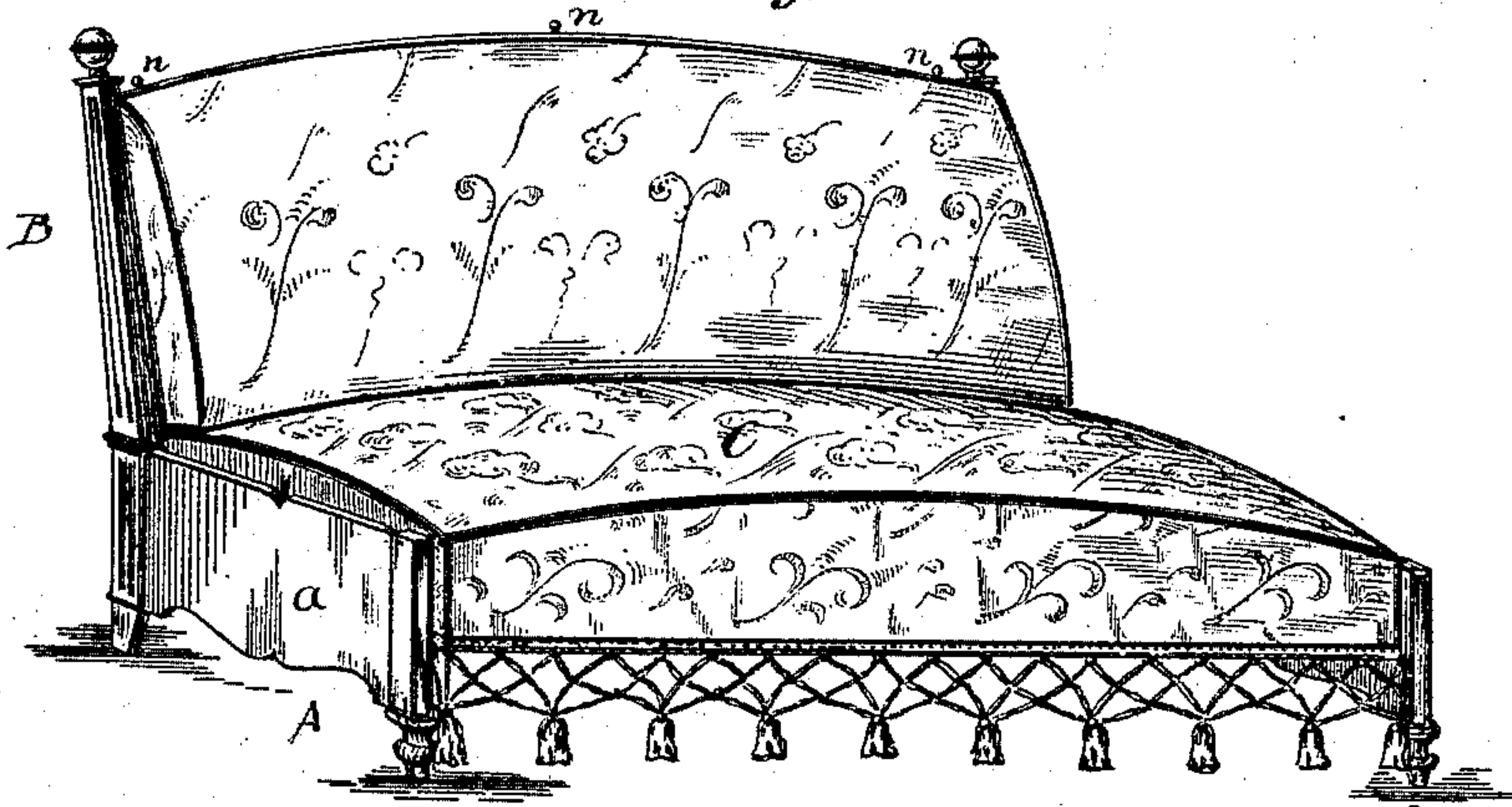


Fig: 2.

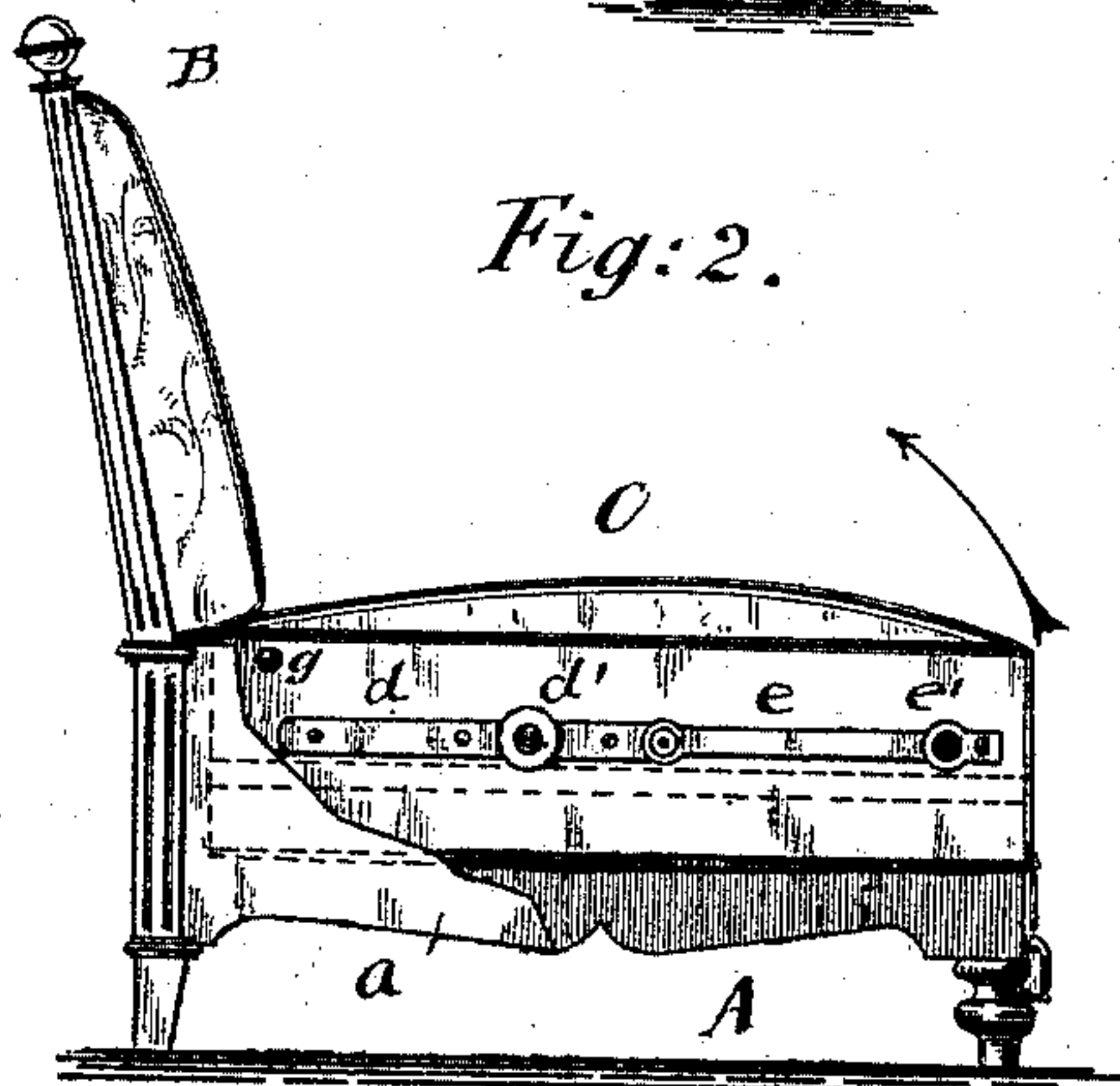


Fig: 4.

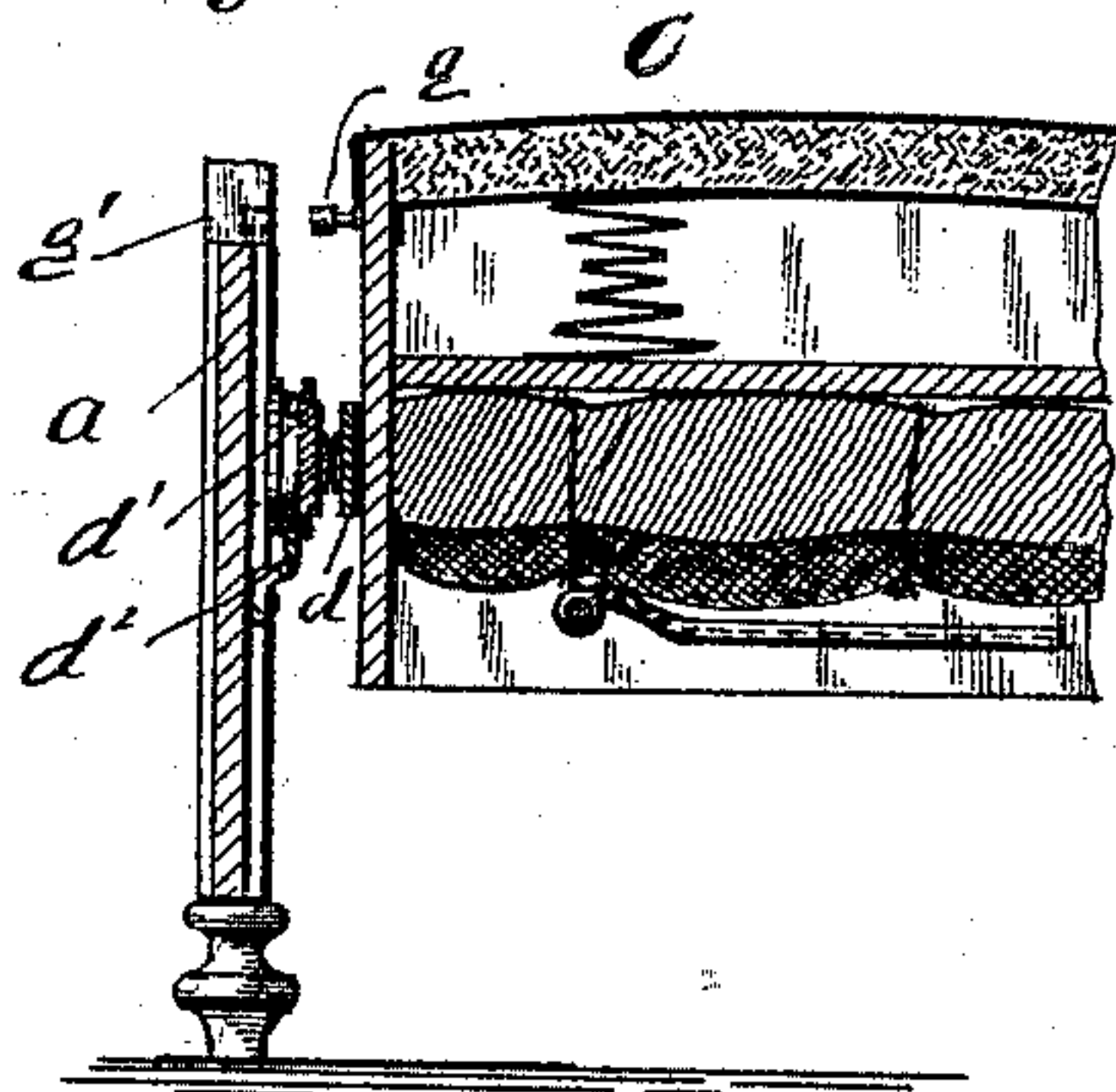


Fig: 3.

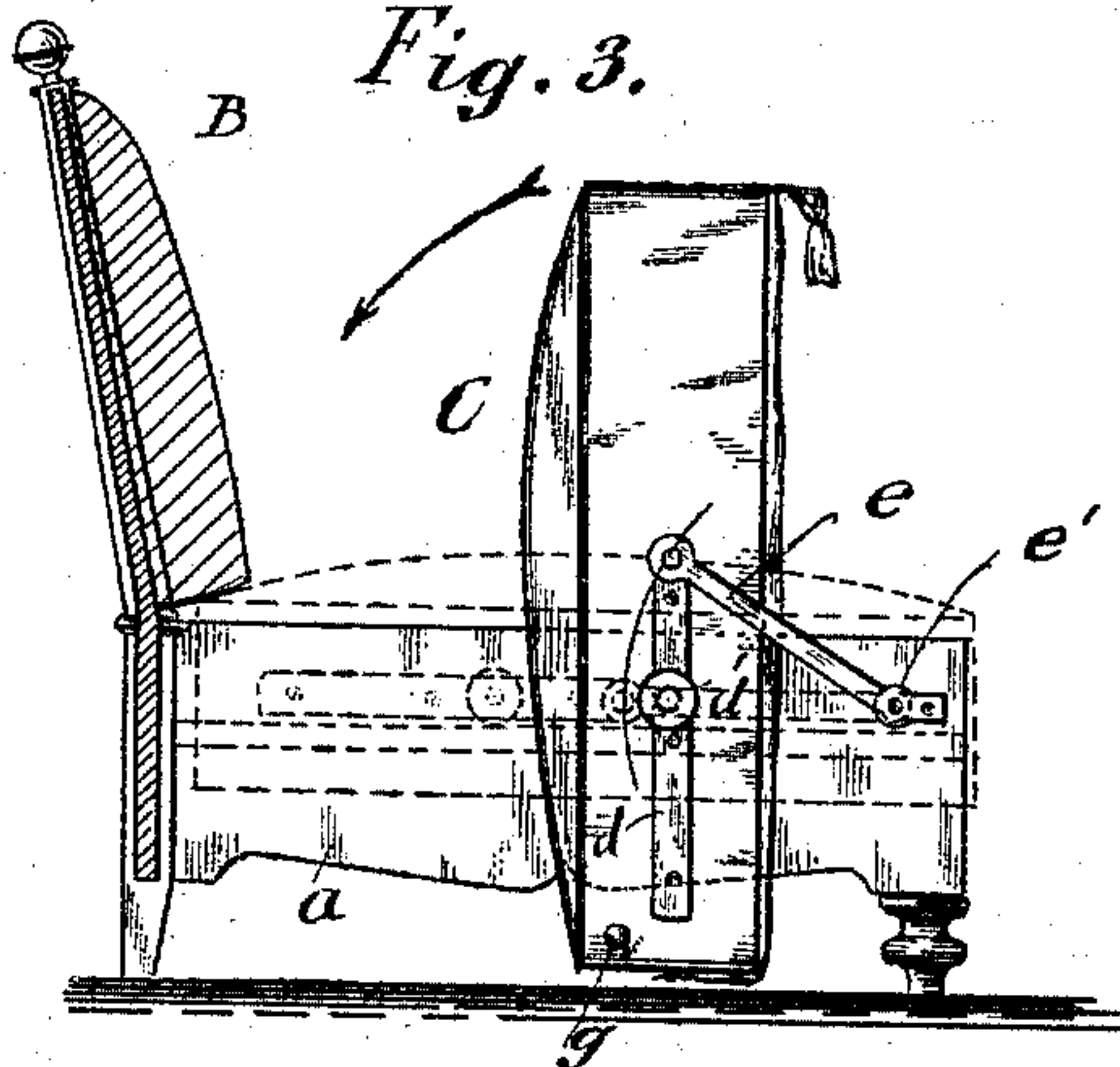
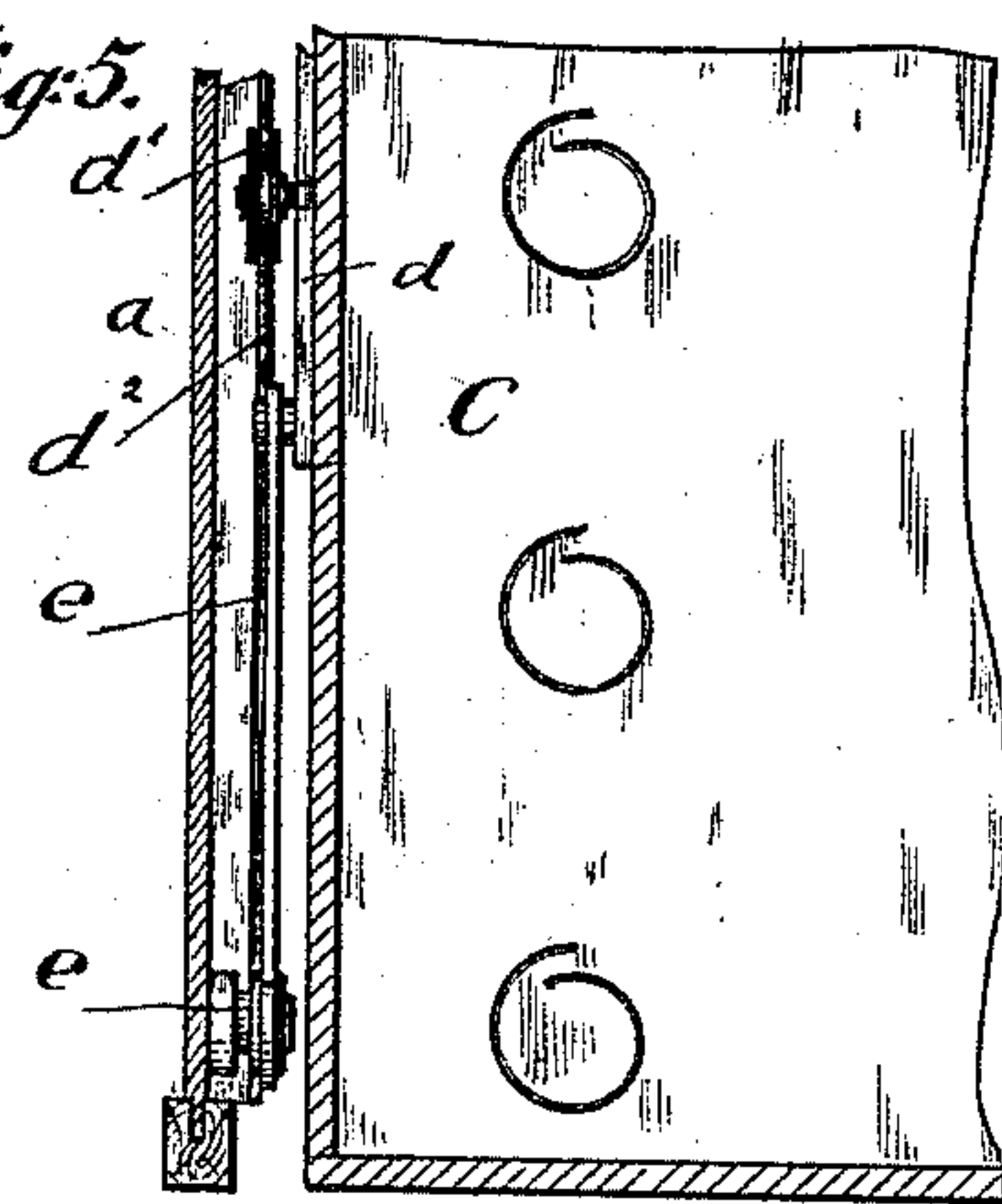


Fig: 5.



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(No Model.)

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Fig: 6.

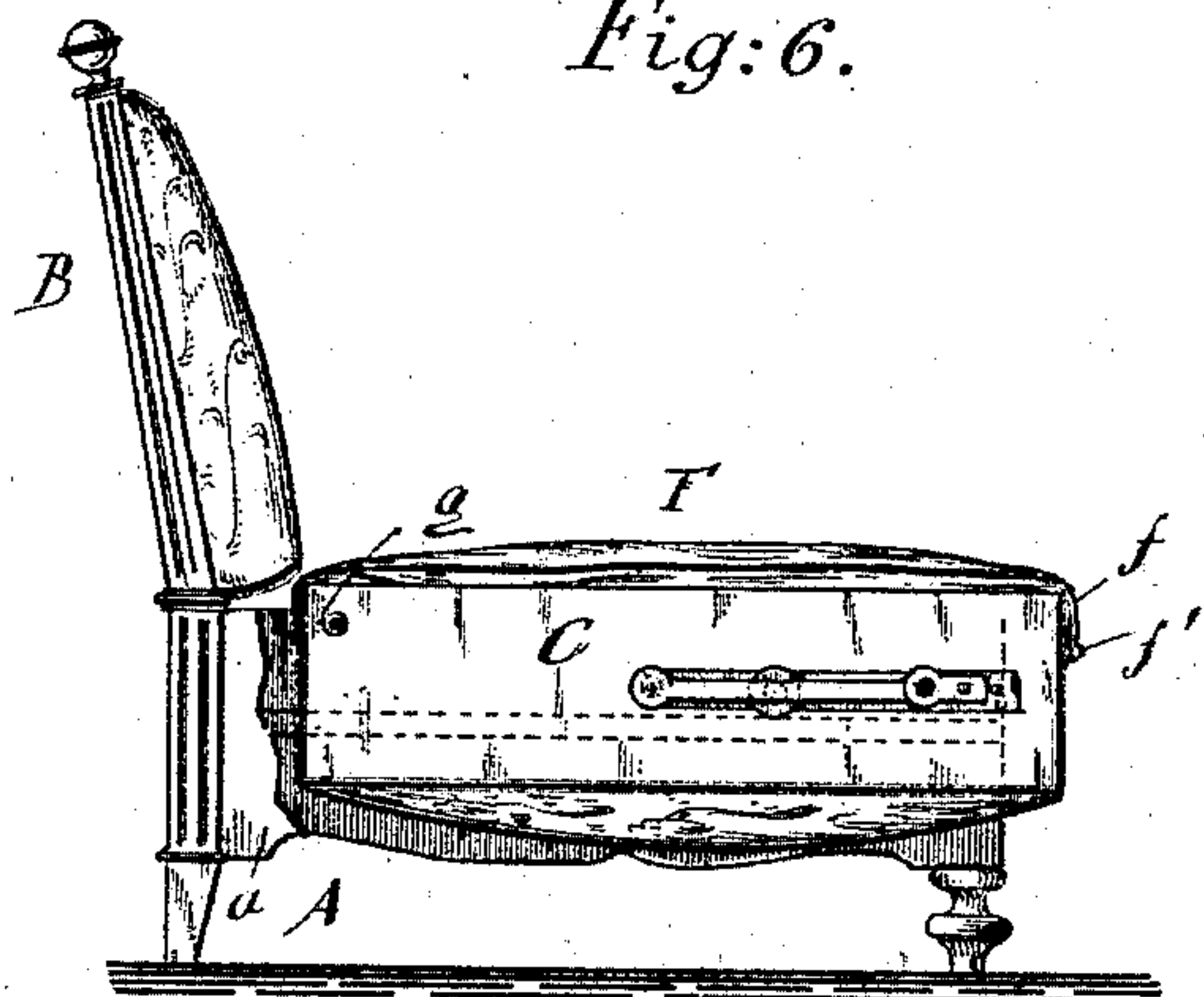
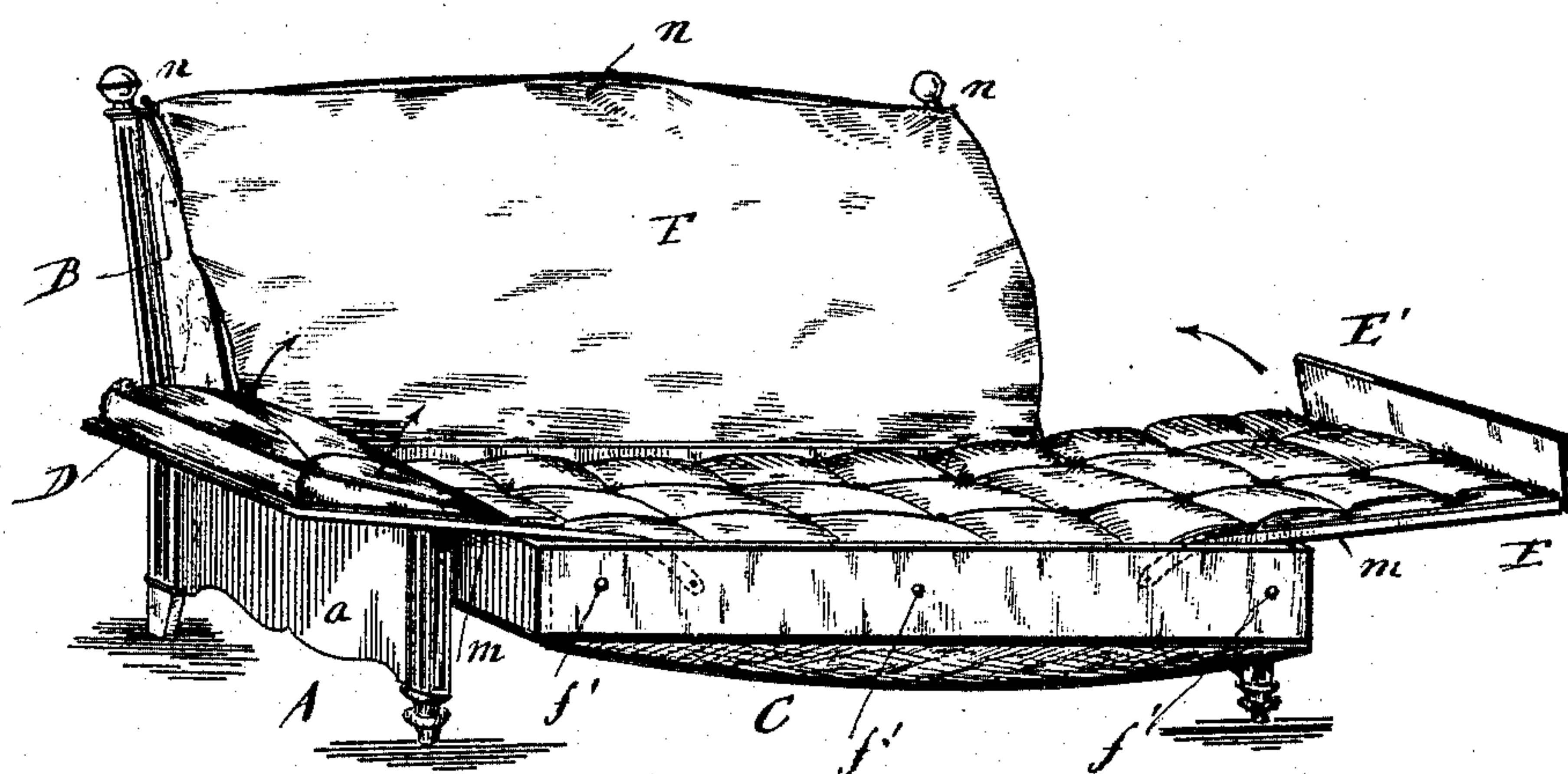


Fig: 7.



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UNITED STATES PATENT OFFICE.

RUDOLPH LUNDBERG, OF NEW YORK, N. Y., ASSIGNOR OF TWO-THIRDS TO
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SOFA-BED.

SPECIFICATION forming part of Letters Patent No. 497,191, dated May 9, 1893.

Application filed March 21, 1892. Serial No. 425,700. (No model.)

To all whom it may concern:

Be it known that I, RUDOLPH LUNDBERG, a citizen of the United States, residing in the city, county, and State of New York, have invented certain new and useful Improvements in Sofa-Beds, of which the following is a specification.

This invention relates to an improved combination sofa and bed, which is so constructed that the sofa can be readily changed into a single bed without increasing its size or changing its general appearance: and the invention consists of a sofa-bed in which the seat-section is supported in the end-walls of the supporting-frame and connected by link-connections therewith, so that it can be tilted on end-rollers, and the under side of the seat-section brought to the top, which seat-section is provided with folding head and foot-sections, which are turned outwardly so as to provide a cushioned bed. The folding head and foot-sections of the seat are retained in folded position by a suitable cover that is attached to the frame of the seat-section and that is applied over the upholstered back so as to protect the same when the seat-section is in use as a bed.

In the accompanying drawings, Figure 1 represents a perspective view of my improved sofa-bed, showing the same in position as a sofa. Fig. 2 is an end-elevation, part of the end-wall being broken off, so as to show the mechanism by which the seat-section is tilted over. Fig. 3 is also an end-elevation, showing the seat-section in the act of being tilted. Figs. 4 and 5 represent respectively a vertical longitudinal section and a plan-view, partly in horizontal section, of one end of the seat-section and its connection with the supporting main-frame. Fig. 6 is an end-elevation, showing the seat-frame tilted over, so as to be in position for changing into a bed: and Fig. 7 is a perspective view, showing the sofa-bed arranged as a bed.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents the supporting-frame of my improved sofa-bed, which frame may be provided with a back B

and with arms, if so desired, or the back may be dispensed with, in which case the sofa is in the nature of a couch-bed. The end-walls *a* of the main-frame A are not connected with each other at the front part of the bed so as to leave the required space for the tilting over of the seat-section C, which is provided at each end, with a fixed strap *d* that is screwed to the wooden frame of the seat-section C and provided with an anti-friction roller *d'* that is guided on fixed rails *d²* attached to the inner sides of the end-walls *a* of the main-frame A, as shown clearly in Figs. 4 and 5. The end-walls of the seat-section C are connected at their center by pivot-straps *e* with fixed pivots *e'* attached to the end-walls *a* of the main-frame A, so that by lifting up the seat-section C in front and tilting it toward the back B in direction of the arrows shown in Figs. 2 and 3 the seat-section is guided by its rollers *d'* on the rails *d²* and turned entirely around, so as to bring the under side of the same on top and the upholstered seat to the under side, as shown in Fig. 6. As the connecting pivot-straps *e* are attached eccentrically to the seat-section C, it is obvious that when the seat-section is tilted entirely from its normal position shown in Figs. 1 and 2 into the position shown in Fig. 6, that the seat-section C instead of fitting closely to the rear-part of the main-frame A, extends for some distance in front of or beyond the main-frame A, whereby the back B is cleared and the change into a bed readily accomplished, inasmuch as the folding-portions, such as the hinged head-section D and the hinged foot-section E can be readily moved in outward direction, over the ends of the seat-section, as shown in Fig. 7. Both the head and foot-sections D and E are supported on wrought-iron straps *m* that are pivoted to the frame of the seat-section, as shown in Fig. 7, on which pivots the said head and foot-sections may be swung, so as to be folded into the frame of the seat. They are upholstered, the upholstering of the foot-sections being of somewhat less height than the upholstering of the main-section of the bed, so as to equalize the same. The hinged foot-section E is

provided with a foot-board E' that is hinged to the outer end of the foot-section, as shown in Fig. 7.

When it is desired to change the bed to a sofa, the hinged and upholstered head and foot-sections D and E are folded inwardly over the upholstered under side of the seat-section and retained in this position by a cover F that is permanently attached to the rear-wall of the seat-section, and fastened to the front-wall of the seat-section by means of loops *f* that are applied to studs or buttons *f'* of the frame of the seat-section E as shown in Fig. 6, or by means of other fastening devices. When the seat-section is used as a bed and the head- and foot-sections are folded in outward direction, the cover F is placed over the upholstering of the back B and attached by its loops to buttons *n* on the upper part of the same, as shown in Fig. 7, so that the upholstered back is thereby protected against being soiled, when the structure is used as a bed. When the seat-section is in position as a bed, it is necessary to lock the rear-side of the seat-section by means of suitable fastening-bolts to the end-walls *a* of the main-frame A, so as to prevent the folding of the same when a person seats himself on the front-edge of the bed-section. For this purpose fastening-bolts *g*, that enter into sockets *g'* of the side-walls *a* are used. In place of bolts, spring-catches or any other suitable devices may be employed, provided, that the reliable fastening of the seat-section is produced. When the seat-section is changed back into its normal position the tilting of the same is prevented by the upholstered projecting portion of the back B, and, by the fact that the pivot-strap connection between the seat-section and the supporting-frame cannot work in the direction opposite to that shown by the arrows, so that any tilting of the seat-section, when in use as a seat for the sofa is impossible.

My improved sofa-bed has the advantage that it can be easily changed from sofa into bed and vice versa by any one, as the manipulation of changing the same from one use to the other is easily comprehended by the ser-

vants and requires no special effort in attending the same.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination of the main frame, the end walls of which are provided with guide-rails, a tilting seat-section provided with anti-friction rollers guided on said rails, pivoted straps connected eccentrically to the ends of the seat section, folding head and foot sections pivoted to the under side of said seat-section, a cover for the head and foot sections, and fastening devices by which said cover is attached to the upper part of the back when the head and foot sections are turned in outward position, substantially as described.

2. The combination, of a seat-section, provided with an upholstered under side, a folding head-section and a folding foot-section pivoted to the frame of the seat-section at the under side of the same and adapted to be folded into the same, and a cover attached permanently to one side of the frame of the seat-section, and means by which the cover drawn over the folding-head and foot-sections can be held against the under side of the seat-section, so as to retain the folded sections in position at the under side of the seat-section, substantially as set forth.

3. The combination, with a supporting main-frame having a back, of a tilting seat-portion, means by which the seat-section can be tilted on its axis, folding head and foot-sections pivoted to the under side of the seat-section, and a cover for said head and foot-sections, and fastening-devices by which said cover can be attached to the upper part of the back when the head and foot-sections of the seat-sections are turned in outward direction, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

RUDOLPH LUNDBERG.

Witnesses:

CHARLES SCHROEDER,
WILLIAM DÜHM.