

(No Model.)

L. HIRSCHFELD.  
CHAIR AND SOFA BED.

No. 507,270.

Patented Oct. 24, 1893.

Fig. 1.

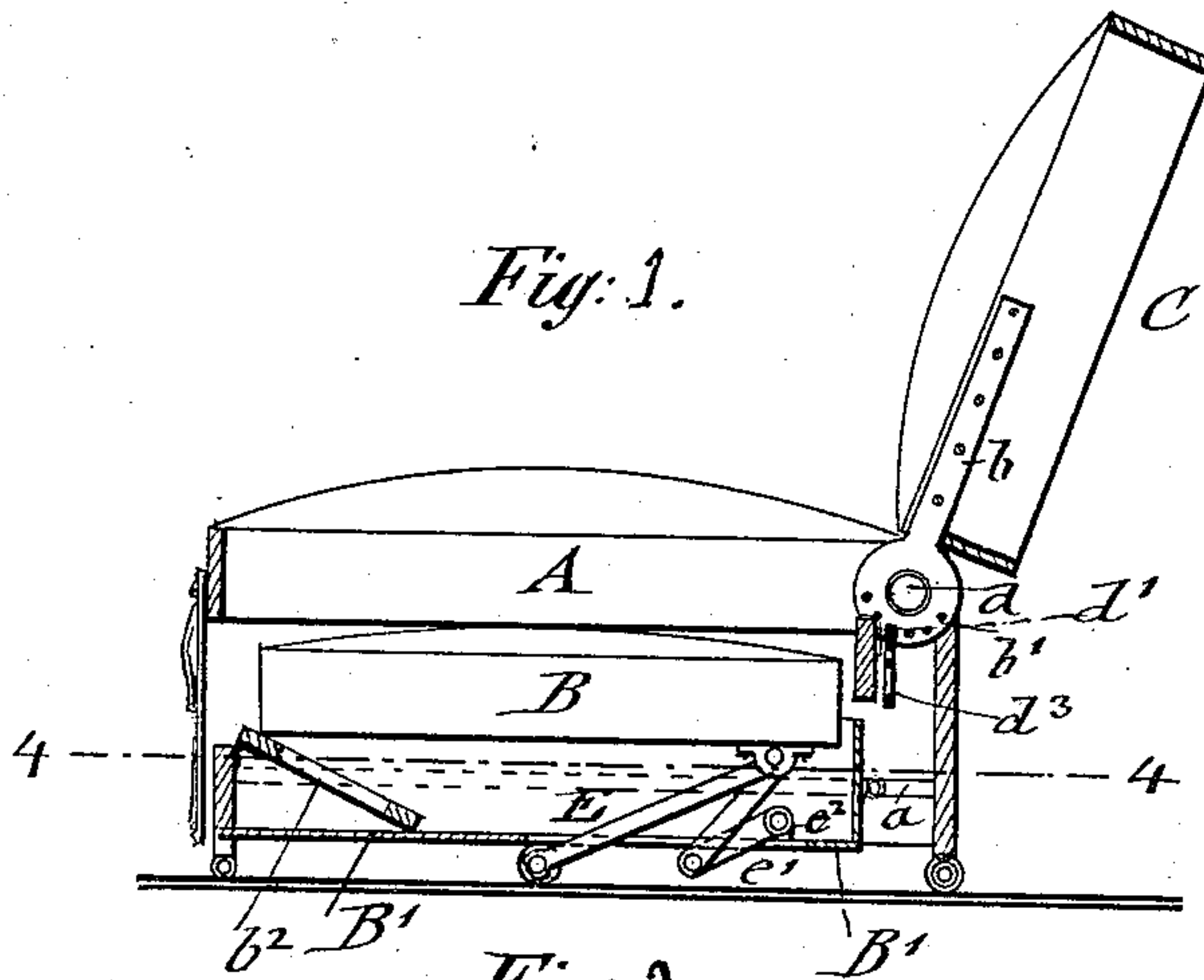


Fig. 2.

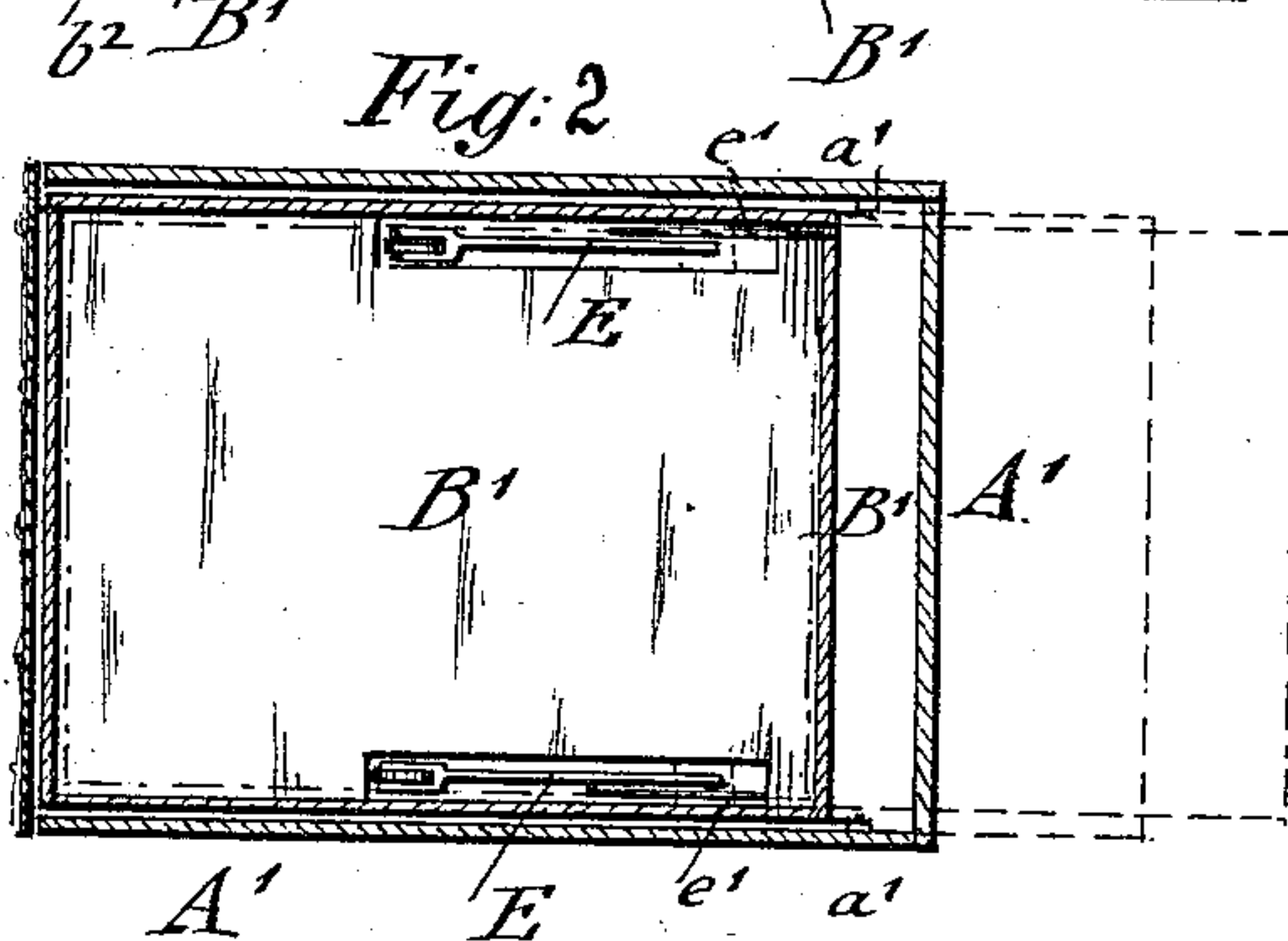


Fig. 3.

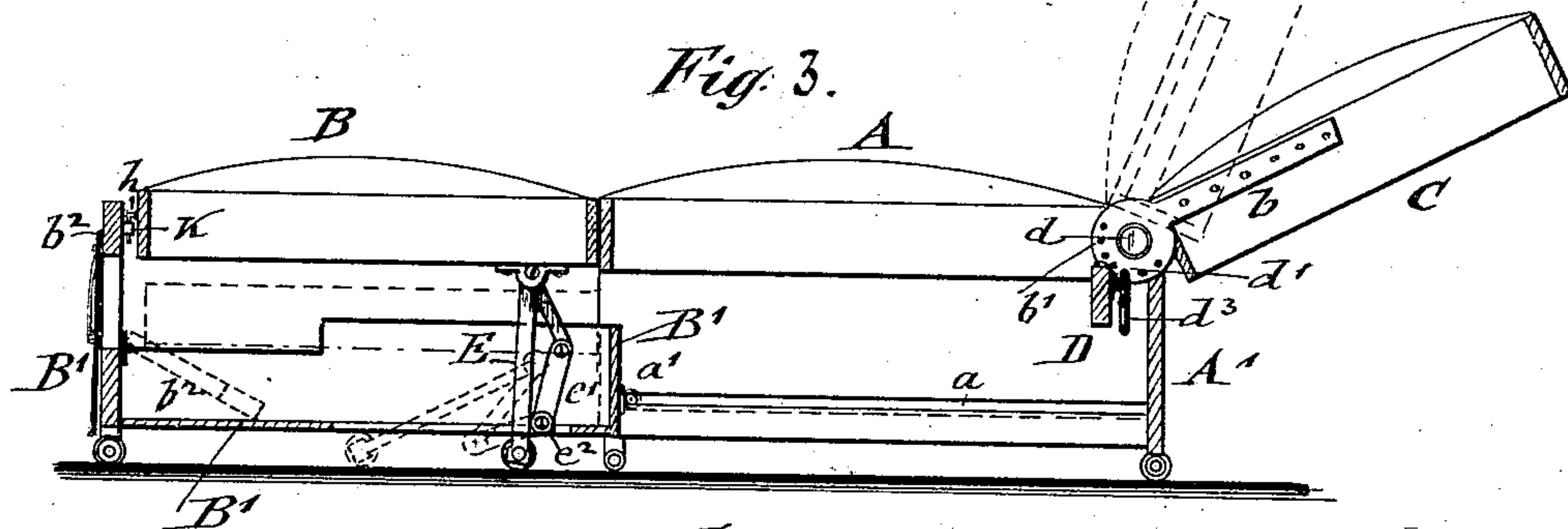
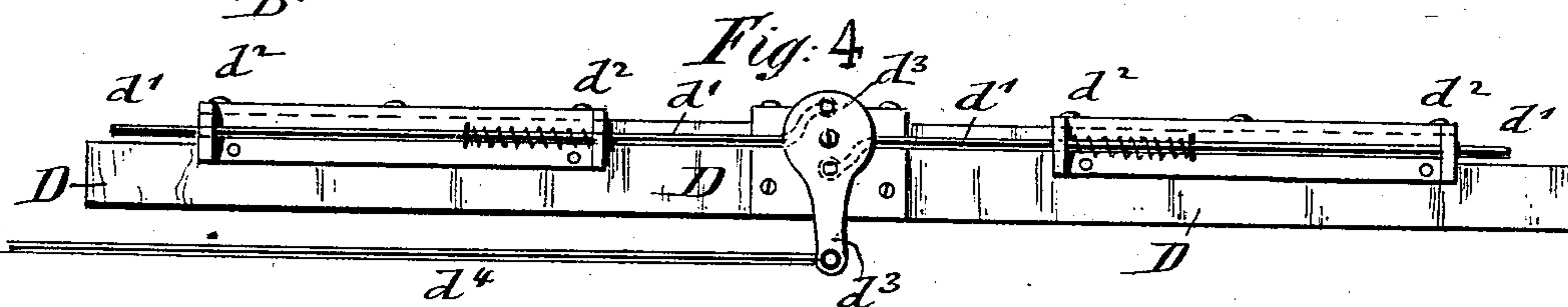


Fig. 4.



WITNESSES:

Charles Schroeder.  
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# UNITED STATES PATENT OFFICE.

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## CHAIR AND SOFA-BED.

SPECIFICATION forming part of Letters Patent No. 507,270, dated October 24, 1893.

Application filed July 5, 1892. Serial No. 438,985. (No model.)

### *To all whom it may concern:*

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

This invention relates to certain improvements in the chair and sofa beds, for which  
10 Letters Patent were granted to Bernhard Morvay, No. 427,597, dated May 13, 1890, said improvement being designed mainly with a view to simplify the construction of said chair and sofa-bed, render the same less expensive and  
15 adapt the same in a higher degree to the practical requirements of daily use: and the invention consists, primarily, in the means for adjusting the hinged back of the chair and sofa-bed into upright, inclined or horizontal  
20 position, and, secondarily, in the construction of the sliding bed-section and hinged supporting mechanism of the same.

In the accompanying drawings, Figure 1 is a vertical transverse-section of the chair or  
25 sofa-bed, while the parts are folded up, so as to form a chair or sofa. Fig. 2 is a horizontal section on line 4 4, Fig. 3. Fig. 3 is a vertical longitudinal section, showing the parts adjusted as a sofa, and Fig. 4 is a perspective  
30 view of the mechanism for locking the hinged back at any desired angle of inclination to the seat section.

Similar letters of reference indicate corresponding parts.

35 Referring to the drawings, A represents the seat-section which is supported on a frame A' that is provided with suitable casters, said frame being open at the front, so as to permit the forward and backward sliding of an  
40 auxiliary bed-section B, which when moved in outward and upward direction forms with the seat-section a bed from the chair or sofa. The side-walls of the frame of the seat-section A is provided with interior longitudinal  
45 grooves *a* in which the anti-friction rollers *a'* of the frame of the auxiliary section B are guided, so that the latter can be readily moved into or out of the frame of the seat-section. The back C is hinged by means of wrought-  
50 iron straps *b* fixed to pivots *d* supported in the side-walls of the frame A', said straps being provided with disk-shaped ends having a

number of perforations *b'* which are engaged by spring-actuated rods *d'* that are guided in  
keepers *d<sup>2</sup>* of a transverse bar D which is sup- 55  
ported in the frame A' of the seat-section A below the pivots *d*. The inner ends of the locking-rods *d'* are pivoted to a cam-lever *d<sup>3</sup>* equidistantly from the center-pivot of the same, the outer end of the cam-lever being 60  
attached to a pivot rod *d<sup>4</sup>* that is guided in the side-wall of the casing A' of the seat-section and provided at its outer end with a knob or button by which the cam-lever *d<sup>3</sup>* is  
oscillated and thereby the locking-rods *d'* are 65  
withdrawn from the perforations *b'* of the disk-shaped ends of the straps *b* or permitted to enter into and lock the same. The back C can be locked to any desired inclination to  
the seat-section B so as to assume either a 70  
vertical or nearly vertical position, or an inclined position, or a horizontal position, as desired. The adjusting-mechanism is operated with great facility by the simple pulling  
of the rod *d<sup>4</sup>* and the back locked by the same 75  
rigidly into any desired position toward the seat-section.

The auxiliary bed-section B is supported in a drawer-shaped casing B', which latter is  
guided as before mentioned, by rollers *a'* in 80  
longitudinal grooves *a* of the frame A' of the seat-section. The drawer B' moves on casters and is provided at its front-end with a hinged foot-board *b<sup>2</sup>* which is moved into in-  
ward and downward directions when the aux- 85  
iliary bed-section is lowered into the drawer B', as shown in full lines in Fig. 1 and in dotted lines in Fig. 3. The foot-board B<sup>2</sup> is provided with keepers K that are engaged by  
hooks *h* attached to the front end of the aux- 90  
iliary bed-section B. The rear end of the auxiliary bed-section B is supported on V-shaped legs E which are pivoted at their  
apices to the underside of the auxiliary bed-section B, the longer legs being provided 95  
with casters at their lower ends and extended through slots *e* in the bottom of the drawer B' to the outside of the same, so as to move  
on the floor. The shorter arms of the V-  
shaped legs E are connected by pivot-links 100  
*e'* with lugs *e<sup>2</sup>* attached to the bottom of the drawer B', said links and arms forming toggle levers, the joints of which are on one side  
of said lugs when the legs are in upright po-



sition and on the opposite side when in inclined position, the pivot-links  $e'$  and legs E being adapted to be folded into inclined position as shown in Fig. 3, when the auxiliary  
 5 bed-section B is lowered into the drawer B', said legs being adapted to support the bed-section in either elevated or depressed position.

When the auxiliary bed-section B is to be  
 10 raised to a level with the seat-section A, the hooks  $h$  at the front part of the bed-section are first inserted into keepers K of the foot-board B<sup>2</sup>, the rear-part of the section B being then raised and the legs E of the same  
 15 moved into vertical position until the hinged ends of the short arms of said legs pass beyond the lugs of the pivot-links, so that they are rigidly locked in position, as shown in Fig. 3. In this position the sections of the  
 20 structure are in position to be used as a bed. When it is desired to change the bed back into a chair or sofa, the legs are moved forward and folded into inclined position, which permits the lowering of the rear part of the  
 25 bed-section B, while the front-part is detached from the foot-board, the latter moved in downward direction in the drawer and the front part of the bed-section then lowered on to said foot-board, as shown in Fig. 1. The  
 30 drawer with the bed-section is then moved in backward direction on into the frame of the seat-section and the back then returned into raised position, so that the parts form a sofa or chair for ordinary use.

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

1. The combination of a frame, an upholstered depressible section connected there-

with, a hinged leg connected with said sec- 40  
 tion, and provided with an arm fixed to its upper end and extending downward therefrom at an acute angle, a link connected at one end to said arm and at the other end to  
 45 a lug on said frame, said link and arm forming toggle levers, the joint of which is on one side of said lug when the leg is in upright position and on the opposite side when in inclined  
 position, said link serving to hold said leg in  
 50 inclined position when said section is depressed whereby the leg serves to support said section in either elevated or depressed position.

2. The combination of a seat section, a sliding drawer disposed in said seat-section, an 55  
 auxiliary or upholstered bed-section disposed in said sliding drawer and adapted to be elevated or depressed therein, a hinged leg connected with said section, and provided with  
 60 an arm fixed to its upper end and extending downward therefrom at an acute angle, a link connected at one end to said arm and at the other end to a lug on said frame, said link  
 and arm forming toggle levers, the joint of  
 65 which is on one side of said lug when the leg is in upright position, and on the opposite side when in inclined position, said link serving to hold said leg in inclined position when  
 said section is depressed whereby the leg  
 70 serves to support said section in either elevated or depressed position.

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

LOUIS HIRSCHFELD.

Witnesses:

PAUL GOEPEL,  
 CHARLES SCHROEDER.