F. L. ANDREN.

SOFA BED.

APPLICATION FILED MAY 4, 1914.

1,237,740.

Patented Aug. 21, 1917.

2 SHEETS—SHEET 1.

Fig. 1.

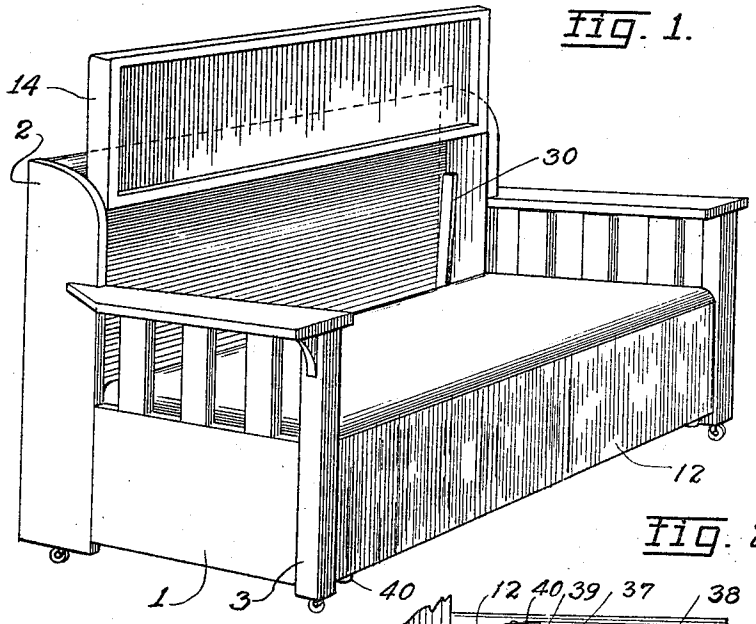


Fig. 2.

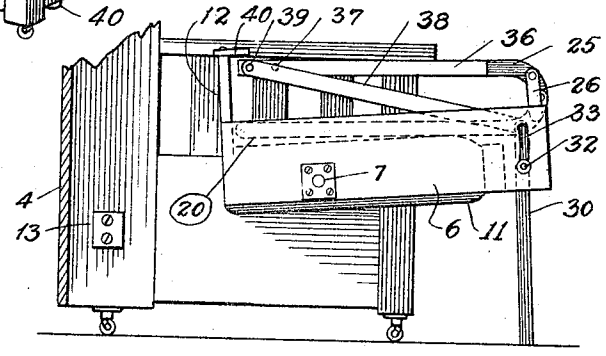


Fig. 3.

WITNESSES.

H. P. Palmer

A. S. Phillips

INVENTOR.

Fritz L Andren

BY Clarence E. Chamberlain

ATTY.

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2 SHEETS—SHEET 2.

Fig. 4.

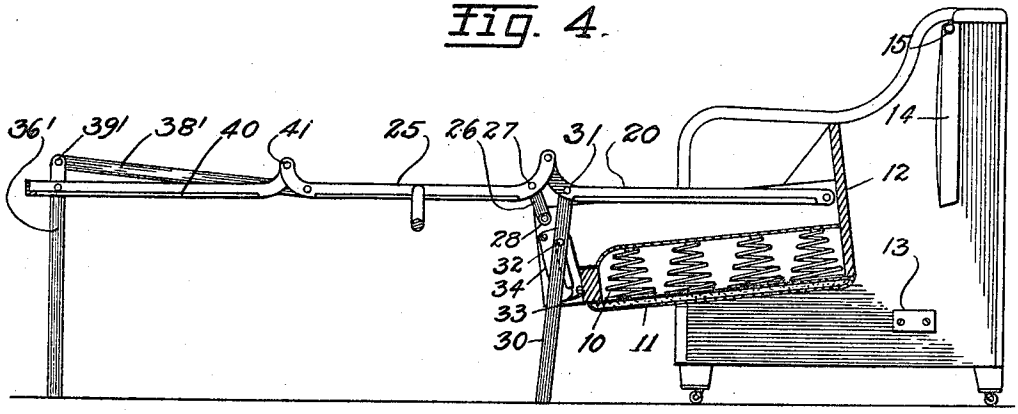


Fig. 5.

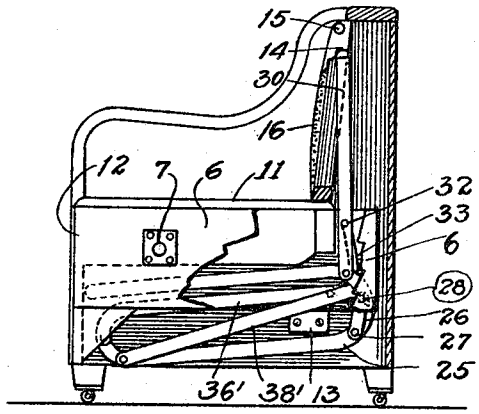


Fig. 7.

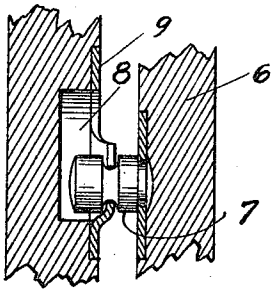


Fig. 8.

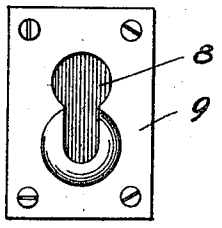
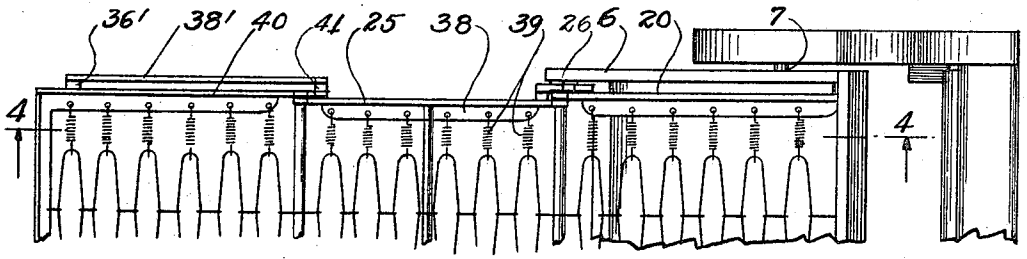


Fig. 6.



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BY Clarence E. Chamberlain

ATTY.

UNITED STATES PATENT OFFICE.

FRITZ L. ANDREN, OF CHICAGO, ILLINOIS.

SOFA-BED.

1,237,740. Specification of Letters Patent. Patented Aug. 21, 1917.

Application filed May 4, 1914. Serial No. 836,140.

To all whom it may concern:

Be it known that I, FRITZ L. ANDREN, a citizen of the United States, residing at the city of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Sofa-Beds, of which the following is a specification.

My invention relates to the class of furniture which is commonly known as sofa beds, and to the kind thereof in which a frame work is provided upon which a seat frame is pivoted, one side of said seat frame being upholstered for use as a sofa, and the other side being provided with foldable bed members which, when the seat frame is reversed, may be extended to form a bed. The object thereof is to provide a bed structure which is simple in construction and cheap to manufacture, and in which the parts are not likely to get out of order. The whole is light in weight. It is easily moved or changed from one use to another. All parts of the bed are strongly and positively supported and all danger of accidental folding up or collapse is eliminated.

The principles of my invention are illustrated in the drawings, in which—

Figure 1 is a perspective view of a sofa;

Fig. 2 is a section of Fig. 1 just inside the near frame end, the seat being reversed;

Fig. 3 is a section of Fig. 1 just inside the near end of the seat frame, the seat being reversed and the bed members extended;

Fig. 4 shows a section similar to that in Fig. 3 of what is known as a short davenport, in which an additional bed member is supplied. It is taken on the line 4—4 of Fig. 6;

Fig. 5 is a section similar to that in Fig. 2, but with the seat frame broken away;

Fig. 6 is a top view of Fig. 4;

Figs. 7 and 8 show the manner in which these seat frames may be suspended.

The invention described may be varied in principle and form. The one shown consists of the end members 1, 1 and posts 2 and 3. The back posts 3 are connected by a suitable cross member, which is provided with inside faces on the end pieces 1. One side of the seat frame is provided with springs 10, and upholstering 11. It has a front or finishing piece 12 and when in use as a seat the portion in the rear of the trunnions rests upon the supports 13. When so used the back 14, which is hinged at 15 to the upright 2 is turned downwardly to present the upholstered face or front thereof 16. When it is desired to use the device as a bed the back portion 14 is swung upwardly as shown in Fig. 1 and the seat frame reversed as shown in Fig. 2, thereby disclosing the elements which are extended to form the bed. The bed consists of a plurality of sections formed of members secured together. The front section includes the primary members 20 which are pivoted at 21 to what is now the rear portion of the seat frame. The other ends of said members are curved upwardly as shown at 22 and are pivoted at 23 to the correspondingly upturned ends 24 of the secondary extension members 25, which form the outside pieces of the second bed section. Radius links 26 have one end 27 pivoted to the secondary members 25, while the other ends are pivoted at 28 to what is now the front edge of the seat frame. Legs 30 have their upper ends pivotally attached at 31 to the primary bed members. Studs 32 projecting outwardly from said legs are received within the slot 33 of a plate 34 secured to the inside of the seat end 6. Additional legs 36 are pivoted at 37 to the secondary bed members 25 adjacent to their ends. A connecting strip 38 has one end pivoted at 39 to the upwardly projecting [illegible]

per ends 39′ to the connecting strip 38′ by which they are attached to the secondary member 25.

It will be noted that when the seat is turned forward to the position shown in Fig. 2, the leg 30 rests upon the floor supporting the weight of the bed members. When the secondary section is turned forward the seat frame is let down to the position shown in Fig. 3, thereby depressing the frame below the point at which the bed fabric may be depressed into contact with it. In the reverse action of folding the bed members the seat is raised, and when completely turned the secondary members are locked in place by the button 40, or other suitable means, and thereby supported until the seat is again inverted.

I claim:—

1. In a sofa bed, a frame, a reversible seat pivoted thereon, primary bed members pivoted to the rear portions of the inverted seat, secondary bed members pivoted to the outer end of the primary bed members, and radius links having one end attached to the secondary bed members and the other end attached to the front portion of the said inverted seat.

2. In a sofa bed, a frame, a reversible seat pivoted thereon, primary bed members pivoted to the rear portions of the inverted seat and having upwardly turned outer ends, secondary bed members having upwardly turned ends pivoted to the outer ends of the primary bed members, and radius links having one end pivotally attached to said secondary bed members and the other end attached to the front portion of the said inverted seat, whereby when the secondary bed members are extended the front part of the inverted seat will be increasingly spaced from the primary bed members to give additional clearance to the bed fabric.

3. In a sofa bed, a frame, a reversible seat pivoted thereon, primary bed members pivoted to the rear portion of the inverted seat and having upwardly turned ends, secondary bed members pivoted to the outer ends of the primary bed members, radius links having one end attached to the secondary bed members and the other end attached to the front portion of the said inverted seat, legs pivotally attached to the primary members, and guiding means for holding said legs in relation to the seat end.

4. In a sofa bed, a frame, a reversible seat pivoted thereon, primary bed members pivoted to the rear portion of the inverted seat and having upwardly turned ends, secondary bed members pivoted to the outer ends of the primary bed members, radius links having one end attached to the secondary bed members and the other end attached to the front portion of the said inverted seat, legs pivotally attached to the primary members, plates provided with slots on the inner faces of said seat ends, and means carried by said legs for engaging said slots.

5. In a sofa bed, a frame, a seat pivoted at its ends within the ends of the frame and forwardly overturnable therebetween, primary bed members pivoted at their rear ends to the rear portion of the inverted seat frame, secondary bed members pivoted to the front ends of the primary bed members, and means connecting the secondary bed members and the seat whereby the relative inclination of the primary members and the seat frame is varied as the secondary members are folded or unfolded.

6. In a sofa bed, a frame, a seat pivoted at its ends within the ends of the frame and forwardly overturnable therebetween, primary bed members pivoted at their rear ends to the rear portion of the inverted seat frame, secondary bed members pivoted to the front ends of the primary bed members and forwardly unfoldable therefrom, means for supporting said secondary members when unfolded, and means connecting the secondary bed members and the seat whereby when the secondary members are extended the front portions of the inverted seat frame will be depressed relatively to the primary bed members.

7. In a sofa bed, a frame, a seat pivoted at its ends within the ends of the frame and forwardly overturnable therebetween, primary bed members pivoted at their rear ends to the rear portion of the inverted seat frame, legs to support the front ends of the primary bed members, secondary bed members pivotally attached to the primary bed members and forwardly unfoldable therefrom, and means for supporting said secondary bed members when unfolded.

8. In a sofa bed, a frame, a seat pivoted at its ends within the ends of the frame and forwardly overturnable therebetween, primary bed members pivoted at their rear ends to the rear portion of the inverted seat, legs to support the front ends of the primary bed members, extension bed members pivotally connected to the primary bed members and forwardly unfoldable therefrom, legs to support the ends of the extension bed members, and means connecting the secondary bed members and the seat, whereby the relative inclination of the primary members and the seat frame is varied as the secondary members are folded or unfolded.

9. In a sofa bed, a frame, a seat pivoted at its ends within the ends of the frame and forwardly overturnable therebetween, primary bed members pivoted at their rear ends to the rear portion of the inverted seat frame, legs to support the front ends of the primary bed members and the front portion of the seat, extension members pivotally connected to the primary members, supporting means for the extension members

connecting the inner ends thereof to the seat, and legs to support the outer portions of the extension members.

10. In a sofa bed, a frame, a reversible seat pivoted thereon, primary members pivoted to the rear portions of the inverted seat, legs to support the front ends of the primary bed members, secondary bed members pivoted to the front ends of the primary members, and radius links having one end attached to the secondary bed members and the other end attached to the front portion of said inverted seat.

11. In a sofa bed, a frame, a reversible seat pivoted thereon, primary members pivoted to the rear portions of the inverted seat, legs to support the front ends of the primary bed members and the front portion of the inverted seat, secondary bed members pivoted to the front ends of the primary members, and radius links having one end attached to the secondary bed members and the other end attached to the front portion of said inverted seat.

12. In a sofa bed, a frame, a reversible seat pivoted thereon and adapted normally to be in substantially horizontal position, primary bed members pivoted to the seat, secondary bed members pivoted to the primary bed members to be unfoldable therefrom, and means actuated by the secondary bed members in unfolding whereby the front edge of the seat when inverted is increasingly spaced from the primary members to give additional clearance to the bed fabric.

In witness whereof, I have hereunto subscribed my name this 27th day of April 1914, in the presence of two subscribing witnesses.

FRITZ L. ANDREN.

Witnesses:
C. K. CHAMBERLAIN,
A. S. PHILLIPS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."