

M. THOMSON.
SOFA BEDSTEAD.

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972,293.

Patented Oct. 11, 1910.

Fig. 1.

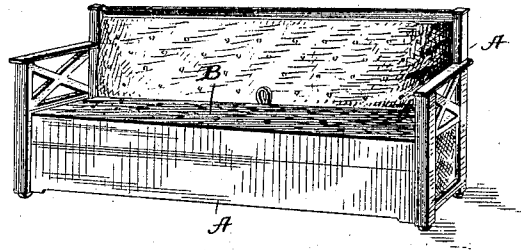


Fig. 2.

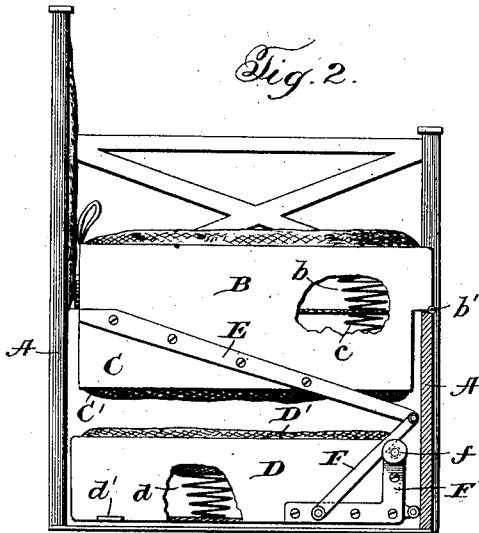


Fig. 4.

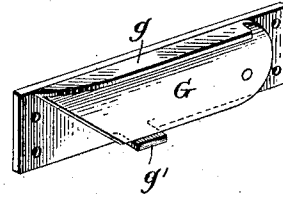
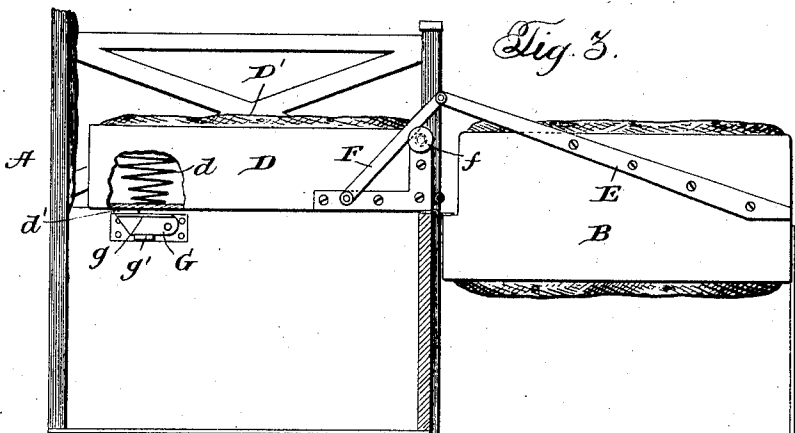


Fig. 3.



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SOFA-BEDSTEAD.

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To all whom it may concern:

Be it known that I, MAITLAND THOMSON, a subject of the King of Great Britain, residing at New York, in the county of New York and State of New York, United States of America, have invented certain new and useful Improvements in Sofa - Bedsteads, of which the following is a specification.

This invention relates to an improvement in sofa bedsteads and the object of the present invention is the provision of an improved device of this character in which the bed sections are of a size to form a bed of standard width and are withal so constructed and arranged as to fold within the body of a sofa of normal width.

A further object of the invention is the provision of an improved device of this character in which separate spring surfaces are used for the sofa seat and for the sleeping surface of the bed.

Other objects of the invention will be apparent from the detailed description hereinafter when read in connection with the accompanying drawing forming a part hereof wherein a convenient embodiment of the invention is illustrated and wherein like numerals of reference refer to similar parts in the views.

In the drawings, Figure 1 is a perspective view of the device folded to form a sofa, Fig. 2 is a cross section of the same, Fig. 3 is a cross section of the device showing the parts extended to form a bed, Fig. 4 is a detail view of one of the supports for holding the supplemental bed section in its elevated position.

Referring now more particularly to the drawings A designates the body of the improved sofa bedstead, which is in the form of a box, which is open at its top and the rear wall of which extends upwardly and constitutes a rigid back for the sofa, which may be upholstered in any suitable manner.

B designates the seat of the sofa which comprises a box-like frame which in its normal position rests upon the top and side of the front walls of the box A. Positioned within the seat frame B are a plurality of coil springs *b* which serve to support the sofa seat proper which is in the form of a cushion which is suitably upholstered.

Formed with the seat frame B and depending therefrom so as to fit within the interior of the box A when said seat frame is in its normal position is a bed section C,

which is in the form of a box-like frame which is slightly smaller in size than the seat frame B to permit said bed section to lie within the interior of the box A. Supported across the under face of the bed section C is a mattress *C'* and interposed between said mattress and a suitable support secured across the top of the bed section C are a plurality of coil springs *c* which serve to support the mattress *C'* when the bed section is moved into position for use.

The seat frame B is pivotally connected at its forward edge to the top of the box A at the forward edge thereof by means of suitable hinges *b'*, the leaves of which are connected respectively to the portions of the seat frame B which projects beyond the bed section C and to the upper surfaces of the side walls of the box A adjacent their connections with the front wall thereof. From this construction it will be seen that the seat frame B may be swung to a position to bring the seat frame C in a horizontal plane with the mattress *C'* thereof positioned uppermost. The seat frame B is adapted to be held in this position by legs which are pivotally secured to the outer surface of the rear wall thereof. When not in use such legs are folded to lie flat against the rear wall of the seat frame so that when said seat frame is returned to its normal position the legs will be concealed between the seat frame and the back of the sofa. A suitable strap or loop is secured to the rear portion of the seat frame B to permit the same with its attached bed sections to be readily swung into and out of position.

D designates a supplemental bed section which is normally positioned within the bottom of the box A. The supplemental bed section D is of a size to substantially fill the interior of the box A and is in the form of a box-like frame in the top of which is positioned a mattress or cushion *D'*, which is supported by suitable springs *d* interposed between said mattress and a suitable support secured across the bottom of the frame.

Secured to the end walls of the bed section C are a pair of arms *E E*, the forward ends of which project slightly beyond the front wall and below the bottom section of the bed section. The projecting ends of the arms *E E* are pivotally connected to the upper ends of a pair of links *F F*, the lower ends of which are pivotally connected to the side walls of the supplemental bed section D

adjacent the lower edges thereof and at some distance from the fronts thereof. In the preferred embodiment of the invention the lower ends of the links F F are connected to pivots which project from the lower arms of angular corner brackets which are secured to the end walls of the supplemental bed section D at the front corners thereof, said brackets serving to reinforce and strengthen the bed section. Projecting from the upper portions of the side walls of the supplemental bed sections D adjacent the front edges thereof are stops which serve to limit the forward movement of the links F F on their pivots, said stops being in the form of studs *f f* which project from the vertical arms of the angular corner brackets F' F'. The studs *f f* are preferably provided with flanges at the outer ends thereof which serve to prevent the links F F from slipping therefrom.

Pivottally secured to the inner surfaces of the end walls of the box A at the upper parts thereof and adjacent the rear wall of the box are two supporting plates G G which are provided along their upper edges with horizontally disposed supporting portions *g g*, which normally lie in a plane coincident with the plane of the upper edges of the front and side walls of the box A. The free ends of the supporting plate are beveled and normally rest upon stops *g' g'* which project inwardly from the end walls of the box A, said stops serving to normally support the plates G G with the supporting portions *g g* thereof in a horizontal plane but permitting said plates to move upwardly on their pivot, for a purpose to be hereinafter more particularly set forth. Projecting from the lower edges of the side walls of the supplemental bed section D adjacent the rear wall thereof are a pair of members *d' d'*, which are adapted to rest upon the supporting portions *g g* of the plates G G when the parts of the device are extended to form a bed.

With the parts of the device folded to form a sofa, the links F F occupy their extreme forward positions and rest upon the studs *f f*. If now the seat frame B and its attached bed section C are swung on the hinges *b b*, the links F F will be moved rearwardly on their pivots and the supplemental bed section D will be raised in the box A. As the bed section is swung over to a horizontal position, the supplemental bed section D will be elevated a sufficient extent to cause the members *d' d'* which project from the end walls thereof to engage with the beveled outer ends of the supporting plates G G and elevate the same on their pivots. As soon as the plates G G have been elevated a sufficient distance to permit the members *d' d'* to pass the same, said plates will drop to their normal positions and the portions *d' d'* which

project from the end walls of the supplemental bed section D will then rest upon the supporting portion *g g* of said plates. During this movement of the supplemental section D, the seat section B and its attached bed section C will have been swung to a horizontal position and the links F F will again have been brought into engagement with the studs *f f*. During the final movement of the seat section B, the arms E E secured thereto will through the links F F draw the supplemental seat frame forwardly a slight extent to cause the front edge thereof to overlie the top of the front wall of the box A. To restore the parts to their folded position it is simply necessary to reverse the position of the seat frame B and its attached bed section C. During this movement the front edge of the supplemental bed section will be first lowered and upon further movement the members *d' d'* which project from the end walls of the supplemental bed sections D will slide off the supporting portions *g g* of the plates G G and the parts will be returned to their normal position.

When the parts are in their folded positions a slight space will be formed between the bed section C and the supplemental bed section D, which space may be utilized for the storage of bedding.

While a convenient embodiment of the invention is illustrated in the accompanying drawings, it will be obvious that many changes may be made to the form and construction therein shown without departing from the spirit and scope of the invention as defined in the appended claims.

I claim:—

1. In a sofa bedstead, a sofa frame, a combined seat and bed frame pivottally supported upon said sofa frame so as to swing to an inverted position without the sofa frame, a supplemental bed frame positioned below the combined seat and bed frame, a pair of links pivottally connecting the forward end of the combined seat and bed frame to the supplemental bed frame adjacent the forward end thereof, stops on the supplemental bed frame serving to limit the forward movement of said links on their pivots and supporting means acting to automatically engage the rear end of the supplemental bed frame when the same is elevated.

2. In a sofa bedstead, a box-like sofa frame, a seat frame supported upon said box-like frame and pivottally connected to the forward edge thereof, a depending bed frame carried by said seat frame and normally lying within the box-like sofa frame, a supplemental bed frame positioned below said first mentioned bed frame in said box-like sofa frame, both of said bed frames being of substantially the same area as the sofa frame, a pair of arms secured to the ends of the bed frame carried by the seat

frame and projecting beyond the front and
below the bottom thereof, a pair of links
having their upper ends pivotally connected
to the projecting ends of said arms and their
5 lower ends pivotally connected to the lower
portion of the supplemental seat frame ad-
jacent the front thereof, means for limiting
the forward movement of said links on their
pivots, and means for supporting the rear

end of the supplemental bed frame when the 10
same is elevated.

In testimony whereof I affix my signature
in presence of two witnesses.

MAITLAND THOMSON.

Witnesses:

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