J. F. KAMPE.

CONVERTIBLE SOFA AND BED.

APPLICATION FILED JUNE 12, 1913.

1,088,587. **Patented Feb. 24, 1914.**

2 SHEETS—SHEET 1.

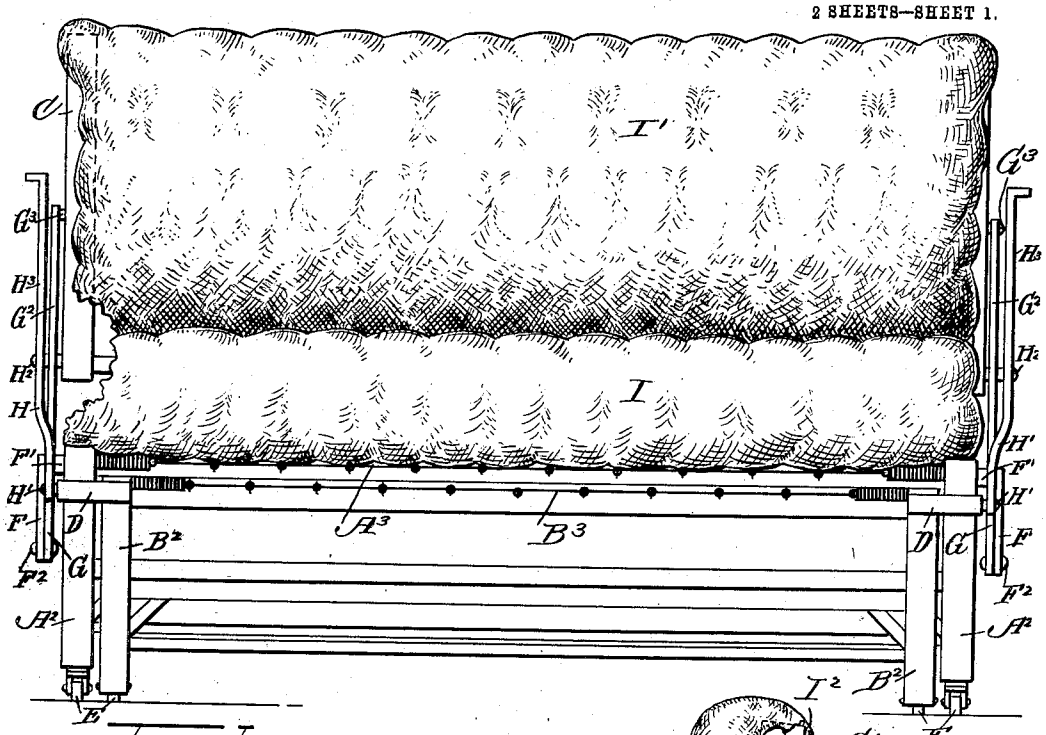


Fig. 1.

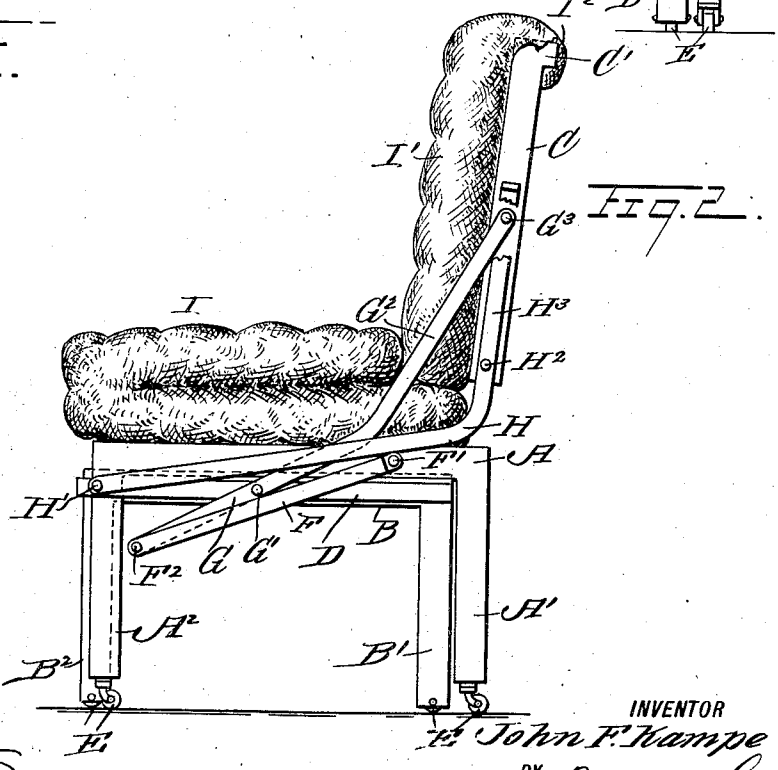


Fig. 2.

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Fig. 3.

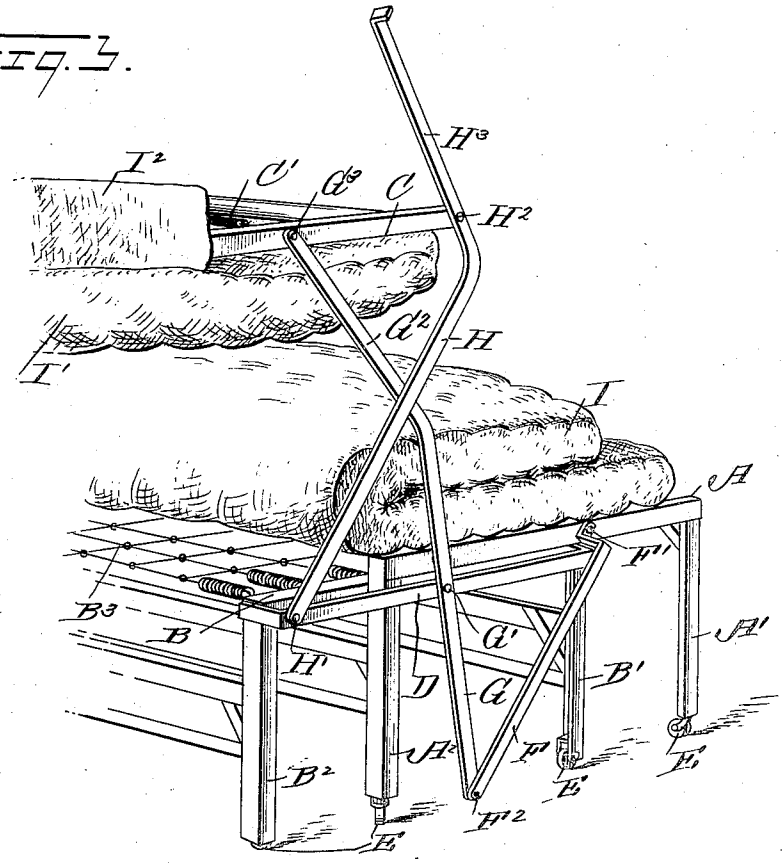
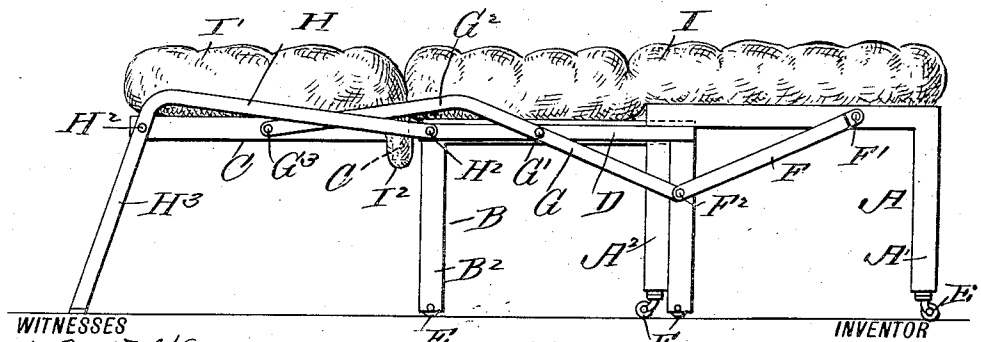


Fig. 4.



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CONVERTIBLE SOFA AND BED.

1,088,587. Specification of Letters Patent. Patented Feb. 24, 1914.

Application filed June 12, 1913. Serial No. 773,234.

To all whom it may concern:

Be it known that I, JOHN F. KAMPE, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Convertible Sofa and Bed, of which the following is a full, clear, and exact description.

The invention relates to furniture and its object is to provide a new and improved convertible sofa and bed, which is simple and durable in construction and arranged to permit of conveniently changing the sofa to a bed or vice versa.

In order to accomplish the desired result use is made of a main section, a middle section slidable under the main section, a back section, a link pivotally connected with the said main section, a lever fulcrumed on the middle section and pivotally connected with the said link and with the said back section, and a connecting and supporting link pivotally connecting the middle section with the said back section and having an extension forming a leg for supporting the back section when the latter is in extended position.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a front elevation of the convertible sofa and bed with the members in folded position to form a sofa; Fig. 2 is a side elevation of the same with the parts broken out; Fig. 3 is a perspective view of the convertible sofa and bed with the members partly extended; and Fig. 4 is a side elevation of the convertible sofa and bed with the members extended to form a bed.

The convertible sofa and bed consists essentially of a main section A, a middle section B and a back section C, and the said main section A is provided with legs A^1, A^2 and a bed spring A^3, and the middle section B is provided with legs B^1, B^2 and a bed spring B^3 somewhat on a lower level than the bed spring A^3 to allow of moving the middle section B under the main section A, as indicated in Figs. 1 and 2. The back section C is provided with a bed spring C' (see Fig. 3). The middle section B is provided at each end with a guideway D through which extends the corresponding leg A^2 of the main section A with a view to limit the sliding movement of the middle section B relative to the main section A when folding the parts to form a sofa, as shown in Figs. 1 and 2, or when moving the middle section B outward into extended position when forming a bed. The legs A^1, A^2, B^1, B^2 are provided with suitable casters E.

A link F is pivotally connected at F' with each end of the main section A and is pivotally connected at its free end F^2 with a lever G fulcrumed at G' on the corresponding guideway D of the middle section B. The lever G is provided with an angular outer portion G^2 pivotally connected at G^3 with the end of the back section C approximately at the middle thereof, as plainly indicated in the drawings.

A connecting and supporting link H is pivotally connected at H' with the outer end of each guideway D and is pivotally connected at H^2 with the corresponding end of the back section C at the outer portion thereof, and the said link H is provided with an extension H^3 forming a leg for supporting the back section C at the time the latter is in extended position, as indicated in Fig. 4.

The mattress is formed of two parts I and I', of which the mattress I is of a width to cover both bed springs A^3, B^3 when the sections A, B and C are extended to form a bed, and the said mattress I is adapted to be doubled up to form a seat on the section A, when the parts are in folded position to form the sofa, as indicated in Figs. 1 and 2. The doubled up or back part of the mattress I is somewhat less in width, as plainly indicated in Fig. 2, so as to leave a space on the bottom section for the mattress I' to rest on when the parts are folded to form a sofa. The mattress I' is attached to the back section C and forms a permanent part thereof. The mattress I' is provided on top with an apron I^2 secured to an angular extension frame C' arranged on the top of the back section C thus giving a fine finish to the top of the back section C at the time the parts are in folded position and form a sofa.

The operation is as follows: When the several parts are in the folded position shown in Figs. 1 and 2, then the middle section B extends under the main section A, while the back section C extends upwardly above the rear of the main section A to form the back for the sofa, while the doubled-up mattress I forms the seat of the sofa and is supported

by the bed spring A^3. It will be noticed that the back C is held in an upright position by the lever G^2 and a link H, with the lower edge of the mattress I′ resting on the top of the rear portion of the doubled-up mattress I. The leg extension H^3 extends at the corresponding end of the back C so as to be completely out of the way. When it is desired to convert the sofa into a bed it is necessary for the operator to first slide out the middle section B from under the section A to extend the mattress I over the middle section B, and then the operator takes hold of the back section C and swings the same over whereby the lever G^2 and the link H cause the back section to turn completely around so that when the leg extensions H^3 finally rest on the floor the back section C extends horizontally in the same plane as the middle section B, and the mattress I′ is uppermost and ranges adjacent the mattress I now extended so as to reach over both bed springs A^3, B^3.

It will be noticed that when the several parts A, B and C are in extended position, the back section C is supported at the outer portion by the legs G^3 while the inner portion is supported by the levers G held against upward swinging movement at the inner ends by the links F.

From the foregoing it will be seen that the piece of furniture shown and described, can be readily converted from a sofa into a bed or vice versa.

It will also be noticed that comparatively few parts are required for accomplishing the desired movement of the back C when folding the same to form the back for the sofa or when extending the same to form an outer section of the bed.

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

1. A convertible sofa and bed, comprising a main section, a middle section slidable relatively to the said main section, a back section, and actuating and supporting means connecting the said sections with each other to allow sliding movement of the middle section relative to the main section, the said means permitting reversal of the back section on swinging the same completely around from a vertical into a horizontal position or vice versa and the said means forming supporting legs for the back section when the latter is in extended position.

2. A convertible sofa and bed, comprising a main section, a middle section slidable relatively to the said main section, a back section, a main link pivotally connected with the said main section, a lever fulcrumed on the middle section and pivotally connected with the said link and the said back section, and a link pivotally connecting the middle section with the said back section.

3. A convertible sofa and bed, comprising a main section, a middle section slidable relatively to the said main section, a back section, a main link pivotally connected with the said main section, a lever fulcrumed on the middle section and pivotally connected with the said link and the said back section, and a connecting link pivotally connecting the middle section with the said back section, the said connecting link having an extension beyond the said back section to form a supporting leg for the same at the time the sections are in extended position.

4. A convertible sofa and bed, comprising a main section, a middle section slidable relatively to the said main section, a back section, a main link pivotally connected with the said main section, a lever fulcrumed at the middle of the middle section and pivotally connected with the main link and with the back section approximately at the middle thereof, and a connecting and supporting link pivotally connected with the outer end of the middle section and with the outer end of the said back section, the said connecting and supporting link having an extension at the back section to form a leg for the same at the time the back extension is extended.

5. A convertible sofa and bed, comprising a main section provided with legs, a middle section provided with legs and adapted to slide under the said main section, the said middle section being provided at each end with a guideway through which extends the outer leg of the said main section to limit the movement of the middle section relative to the said main section, a main link pivotally connected with each end of the main section, a lever fulcrumed on the middle of a guideway of the said middle section and pivotally connected with the free end of the corresponding link and with the corresponding back section, and a connecting and supporting link pivotally connected with the outer end of a guideway and the said back section at the outer end thereof, the said connecting and supporting link having a leg extension.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN F. KAMPE.

Witnesses:
THEO. G. HOSTER,
PHILIP D. ROLLHAUS.