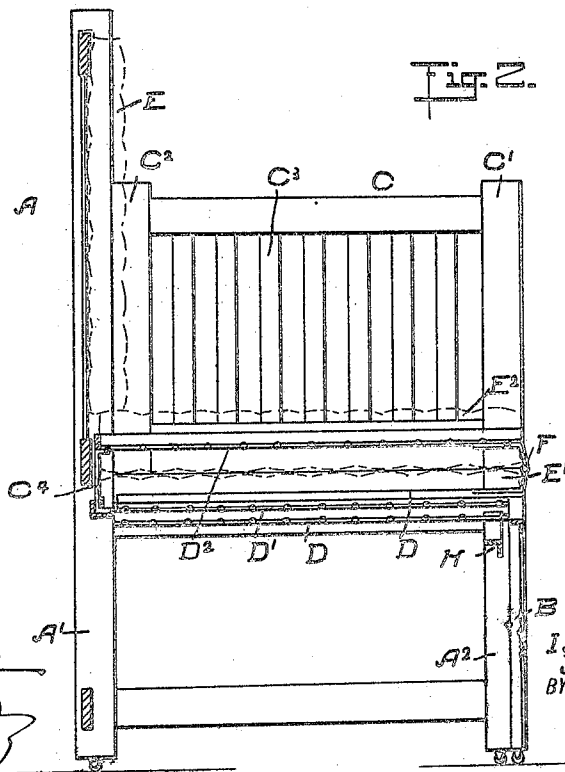
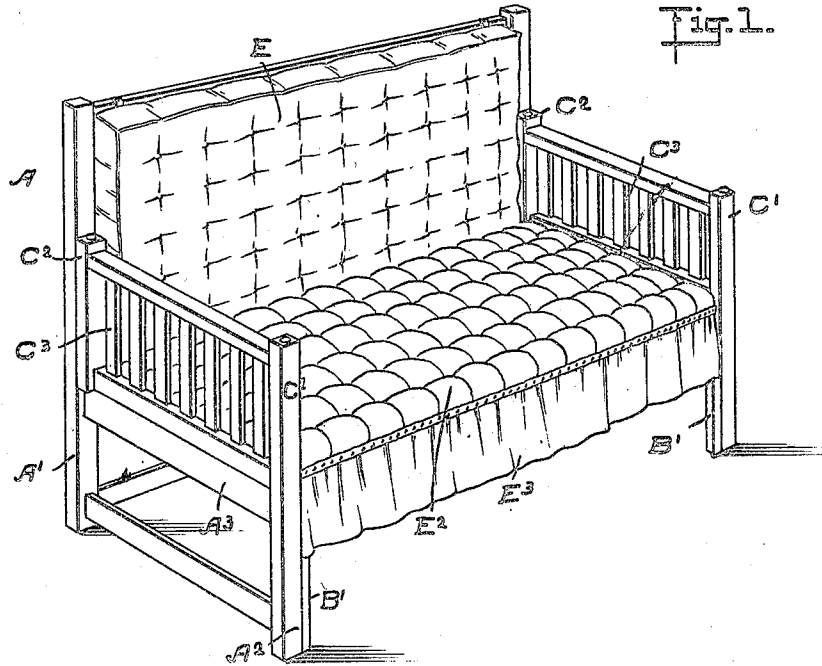


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 CONVERTIBLE BED AND COUCH.
 APPLICATION FILED AUG. 17, 1912.

1,057,352.

Patented Mar. 25, 1913.

3 SHEETS—SHEET 1.



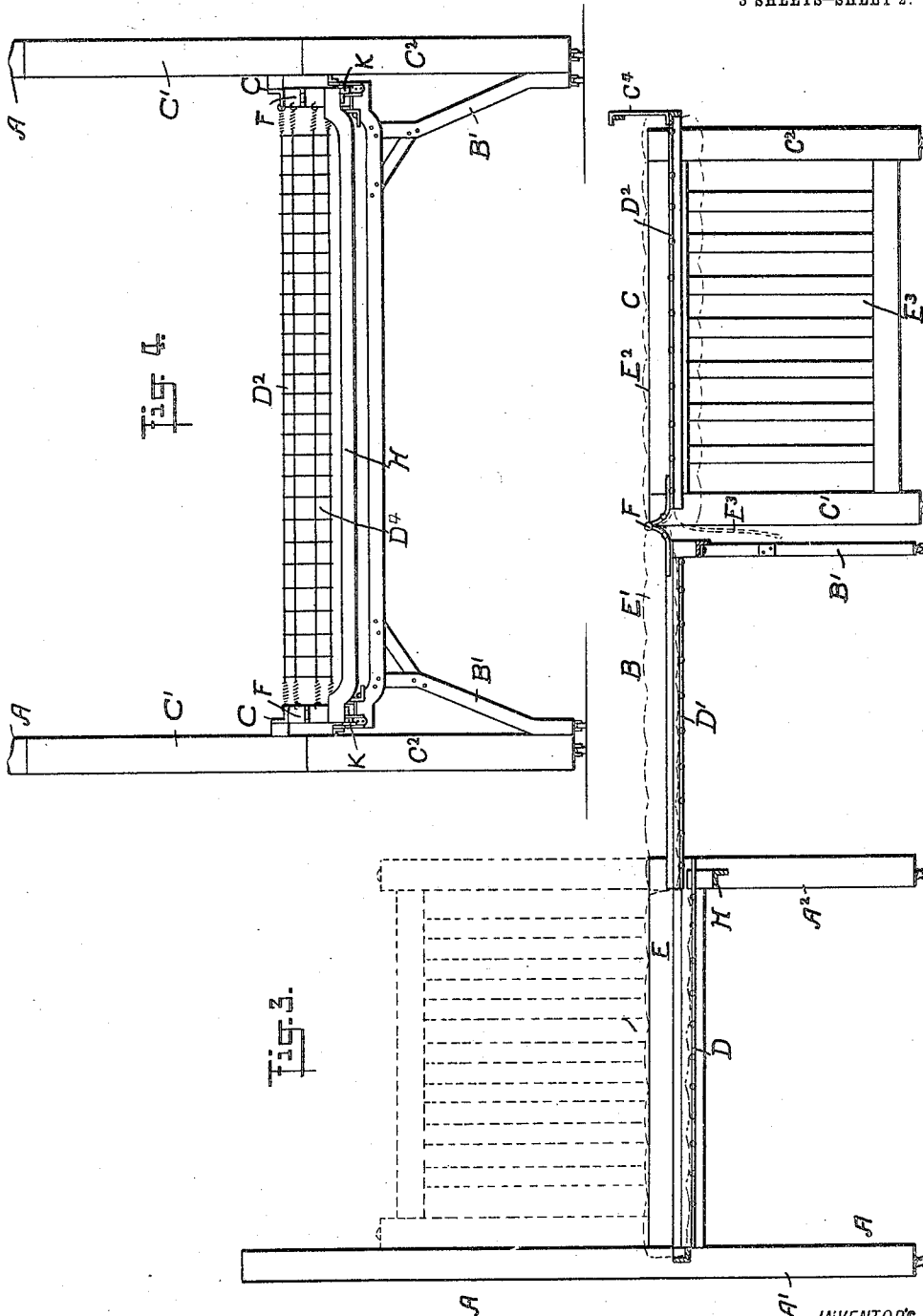
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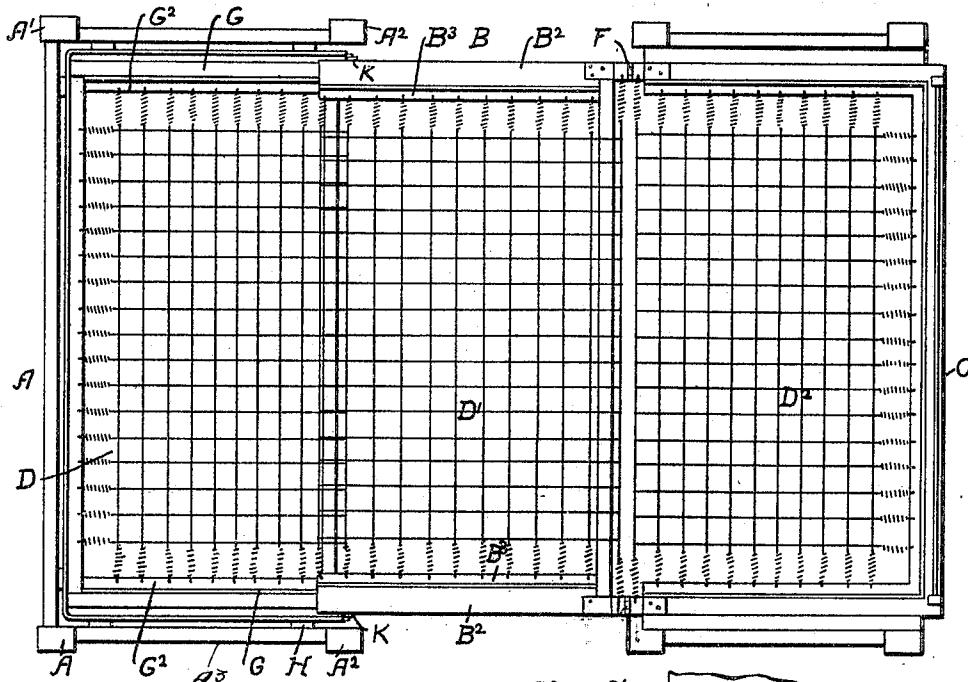


Fig. 5.

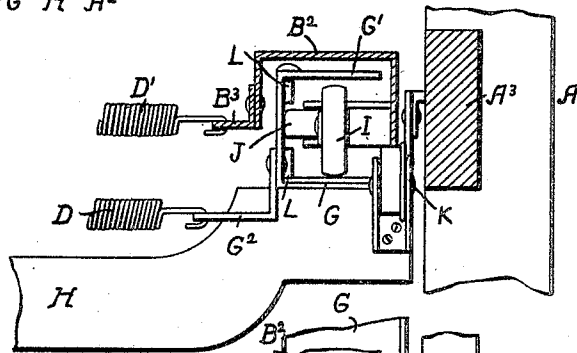


Fig. 6.

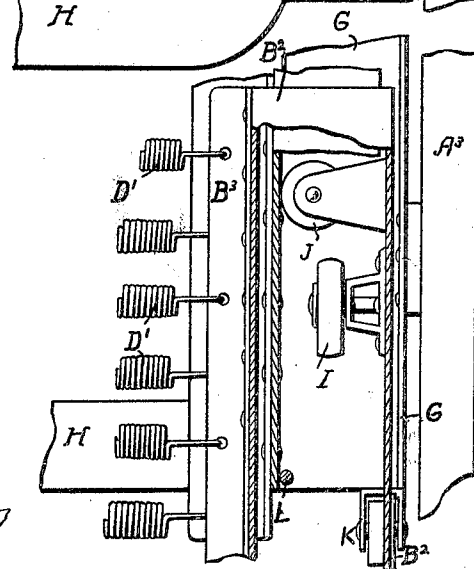


Fig. 7.

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UNITED STATES PATENT OFFICE.

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CONVERTIBLE BED AND COUCH.

1,057,352.

Specification of Letters Patent.

Patented Mar. 25, 1913.

Application filed August 17, 1912. Serial No. 715,586.

To all whom it may concern:

Be it known that we, ISAAC MASON and JOSEPH JOHN McINTYRE, both citizens of the United States, and residents 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 Bed and Couch, of which the following is a full, clear, and exact description.

The invention relates to household furniture, and its object is to provide a new and improved convertible bed and couch or davenport, arranged to permit of convenient and quick converting of the piece of furniture from a couch or a davenport to a bed or vice versa, the bed and couch being very comfortable and capable of use anywhere in a room, and the couch and its seat being exceedingly soft, pliable and springy and its back being upholstered.

In order to accomplish the desired result, use is made of a frame formed of a head section, a middle section, and a foot section, the said middle section having slidable connection with the said head section, and the said foot section having pivotal connection with the said middle section whereby the foot section can be folded upon the middle section and moved with the latter into folded position on the head section to form a couch, davenport or settee, or the parts extended to form a bed.

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 perspective view of the piece of furniture arranged as a couch, davenport or a settee; Fig. 2 is a sectional side elevation of the same; Fig. 3 is a sectional side elevation of the piece of furniture arranged as a bed; Fig. 4 is an enlarged front end elevation of the couch with the mattress section omitted; Fig. 5 is a plan view of the bed with the mattress section omitted; Fig. 6 is an enlarged cross section of the sliding connection between the head and middle section; and Fig. 7 is a sectional plan view of the same.

The frame for the piece of furniture is made in three sections A, B and C, of which A is the head section, B the middle section and C the foot section. The bed spring is likewise made in three parts D, D' and D''

individually secured to the said frame sections A, B and C, and the mattress is also made of three sections E, E' and E'' adapted to overlie the bed spring sections D, D' and D'' when the piece of furniture is used as a bed.

The mattress section E is adapted to form the back of the couch, davenport or settee, as indicated in Fig. 1, and the under side of this section E is preferably upholstered with leather or a similar material. The mattress section E'' is adapted to form the seat of the couch, davenport or settee and is likewise upholstered on the under side with leather or the like. The inner end of the section E'' is provided with an apron E' adapted to form the front lower portion of the couch, davenport, or settee, as indicated in Fig. 1.

The middle section B is mounted to slide lengthwise on the head section A, and the foot section C is connected at the sides by hinges F with the middle section B to permit of swinging the foot section C onto the top of the middle section B, and to allow of moving the folded foot section with the middle section on the head section A to convert the bed into a couch, davenport or settee, as shown in Figs. 1 and 2. The head section A is preferably provided with rear and front legs A' and A'', and the middle section B is provided at its outer end with legs B', and the foot section C is provided with rear and front legs C', C''. An ornamental or other filling C'' is arranged between the said legs C', C'' and forms with the latter side arms for the couch, davenport or settee when the parts are in the folded position indicated in Figs. 1 and 2.

The sliding connection between the head section A and the middle section B is arranged as follows, special reference being had to Figs. 5 and 6: The side rails A'' of the head section A are provided along their inner faces with longitudinally-extending guideways G rigidly connected with each other by cross bars H near the front and rear ends. Each guideway G is preferably made of an angle and a channel iron fastened to the angle iron, see Fig. 6, the angle iron being secured to the side rails and the upper member of the channel iron forming a top flange G' for the guideway, as will be readily understood by reference to Fig. 6. The side rails B'' of the middle section B are

of inverted U-shape and preferably formed of channel irons.

The foot section C is provided with a cross rail C' adapted to rest on a cross rail forming an integral connecting member of the angle iron of the guideway G, as will be readily understood by reference to Fig. 2.

On the vertical member of each side rail B² are journaled rollers I and J, of which the roller I is disposed vertically and is adapted to travel on the corresponding guideway G, while the other roller J is disposed horizontally and is adapted to travel on the inner vertical member of the guideway G. The lower edge of the outer vertical member of each rail B² is in engagement with the top of a roller K journaled on the front end of the head section A so that the middle section B can be readily moved inward or outward on the head section A without danger of one section binding on the other and without unduly straining the parts especially as the horizontal roller J takes up the strain incident to the weight of the person on the spring section D' fastened to the rails B².

As shown in Figs. 5, 6 and 7, the bed spring section D' is preferably attached to the rails B² by angle irons B³ secured to the said rails, and similar angle irons G² are attached to the guideways G for connection with the spring section D.

In order to prevent the middle section B from being pulled out too far relative to the head section A, use is made of stop pins L held on the outer end of the guideways G for the rollers J to abut against.

The convertible bed and couch, davenport or settee shown and described is very simple in construction and can be readily converted from one piece of furniture to another.

It is understood that when the parts are extended to form a bed, as shown in Figs. 3 and 5, and it is desired to convert the bed into a couch, davenport or settee, as shown in Figs. 1 and 2, it is only necessary for the user to swing the foot section C upward and rearward onto the middle section B and then push the superimposed sections B and C inward on the head section A, from which, however, the mattress section E was removed and placed against the back of the head section to form the back for the couch, davenport or settee. It will be noticed that when the foot section C is swung onto the top of the section B the upholstered under side of the mattress section E² forms the seat and the apron E³ depends from the seat so as to give the couch, davenport or settee a nice appearance. It will further be noticed that the ornamental filling C³ and the legs C' and C² form arm rests or sides for the couch, davenport, or settee.

When the piece of furniture is in the form of a couch, settee or davenport, the

three bed spring sections D, D', D² as well as the mattress sections E, E', E² are in use to form an exceedingly soft, pliable and springy settee. The couch, davenport or settee, either in the form of a bed, couch, davenport or settee, can be readily used in any part of the room as its parts are self-sustaining and ornamental.

The roller I is sufficiently large in diameter to engage the under side of the top flange G' in case the floor is uneven, thus limiting the up play of the section B when running the same in or out of the section A.

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

1. A convertible couch and bed, comprising a head section, a middle section slidably connected with the head section, a foot section hinged to the middle section to fold upon the same, said foot section being provided with legs, the legs at each side having a panel connecting them and forming a side arm for the couch when the sections are in folded position.

2. A convertible couch and bed, comprising a head section having rear and front legs, the rear legs being extended above the section and connected together, a middle section slidably connected with the head section and provided with legs at its outer end, and a foot section hinged to the middle section to fold upon the same and provided with legs at each end, the legs at each side being connected by spaced bars connected with each other.

3. A convertible couch and bed, comprising a head section having rear and front legs, the rear legs being extended above the section and connected together, a middle section slidably connected with the head section and provided with legs at its outer end, and a foot section hinged to the middle section to fold upon the same and provided at each end with legs adapted to form side arms for the couch when the sections are folded.

4. A convertible couch and bed having a frame formed of sections, one of the said sections being provided at its sides with guideways and rollers at the forward ends of the guideways, and the other section having side rails adapted to travel on the said front rollers, vertically-disposed rollers journaled on the said side rails and adapted to travel on the bottoms of the said guideways, and horizontally-disposed rollers journaled on the said side rails and adapted to travel on the sides of the said side rails.

5. A convertible couch and bed, having a frame formed of sections, one of the said sections being provided at its sides with guideways and rollers at the forward ends of the guideways, and the other section having side rails adapted to travel on the said

front rollers, vertically-disposed rollers journaled on the said side rails and adapted to travel on the bottoms of the said guideways, horizontally-disposed rollers journaled on the said side rails and adapted to travel on the sides of the said side rails, and bed spring sections secured to said frame sections at the guideways and rails thereof.

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