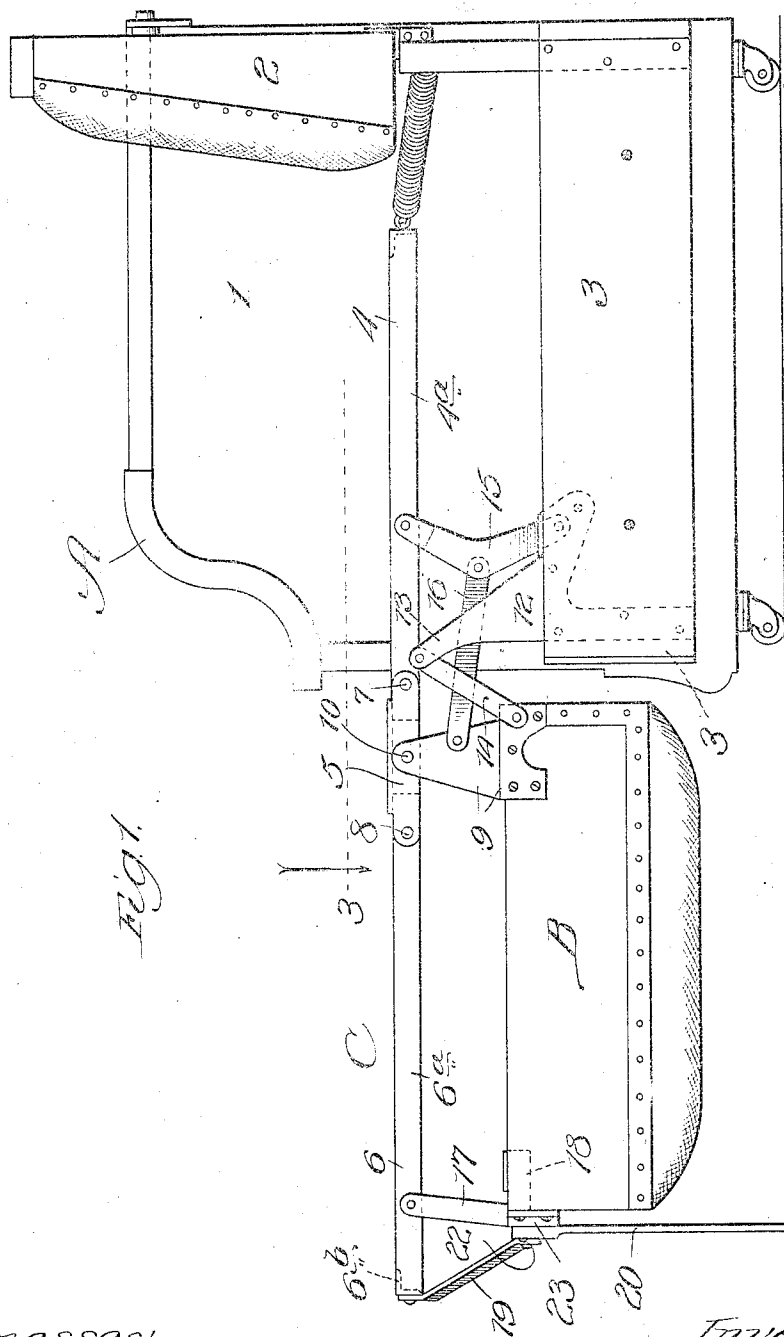


1,046,417.

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SOFA BED, COUCH, &c.
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2 SHEETS—SHEET 1.



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1,046,417.

Fig. 3.

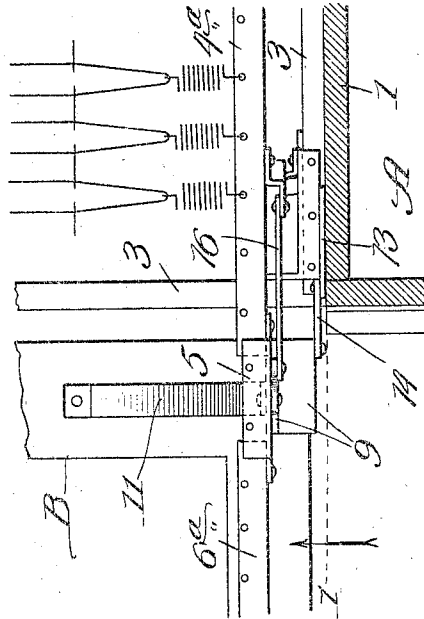
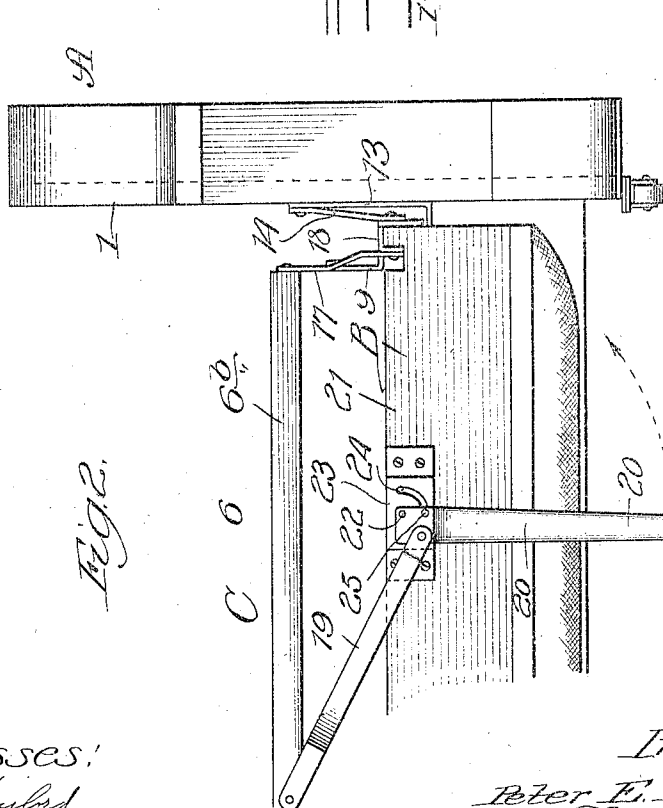


Fig. 2.



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UNITED STATES PATENT OFFICE.

PETER E. KROEHLER, OF NAPERVILLE, ILLINOIS.

SOFA BED, COUCH, &c.

Patented Dec. 3, 1912.

1,046,417.

Specification of Letters Patent.

Original application filed February 8, 1912, Serial No. 676,217. Divided and this application filed September 3, 1912. Serial No. 718,269.

To all whom it may concern:

Be it known that I, PETER E. KROEHLER, a citizen of the United States, residing at Naperville, in the county of Dupage and State of Illinois, have invented a new and useful Improvement in Sofa Beds, Couches, &c., of which the following is a specification.

This invention relates to combination sofas and beds, or combination couches and beds, of the type employing a forwardly overturnable seat and a folding bed normally housed in folded condition beneath the seat, the bed being adapted to be unfolded or spread out in the operation of opening the seat.

The present application constitutes a division of my application No. 676,217, filed in the United States Patent Office February 8, 1912; and the invention herein claimed relates to the improved relation and manner of operation of the legs which serve to support the forwardly overturnable seat in the extended position of the structure. The invention is illustrated in its preferred embodiment in the accompanying drawings, in which—

Figure 1 represents an elevational view of the improved structure in bed form, one end of the main frame being removed; Fig. 2, a broken front elevational view of the structure; and Fig. 3, a broken plan section taken as indicated at line 3 of Fig. 1.

In the construction illustrated, A represents a main frame; B, a forwardly overturnable seat; and C, a folding bed operatively connected with the seat and main frame.

The frame may be of any suitable construction. As shown, it comprises end-standards 1; a back 2 connected with the end-standards; and a box-frame 3 interposed between the lower portions of the end-standards and rigidly secured thereto.

The bed C comprises a rear section 4 having forwardly turned arms or end-members 4^a; an intermediate section 5 comprising end-members pivotally connected with brackets carrying the seat; and a front section 6 having rearwardly turned arms or end-members 6^a. The extremities of the arms 4^a are joined, by pivots 7, to adjacent ends of the end-members of the intermediate section; and the arms 6^a are joined, by pivots 8, to adjacent ends of the inter-

mediate section. The seat is equipped with hangers or brackets 9 which carry pivots 10 on which the end-members of the intermediate section are mounted. The members 9 are suitably trussed, by braces 11, as shown in Fig. 3. At the front corners of the box-frame 3 are secured mountings or brackets 12 equipped with arms 13 which are connected, by links 14, with the seat-carried brackets 9. Links 15 connect the brackets 12 with the arms 4^a of the rear bed section. Links 16 connect the links 15 with the brackets 9. The end-members 6^a of the front bed section 6 are connected, by links 17, with clips or brackets 18 with which the end-members of the frame of the seat are equipped.

The longitudinal rail or front member 6^b of the bed section 6 projects somewhat in front of the free longitudinal edge of the seat, and is connected, by links 19, with the upper portions of the legs 20 which are adapted to swing in a plane parallel with the free longitudinal rail or edge member 21 of the seat B. The legs 20 are joined, by pivots 22, to brackets or clips 23 which are provided with segmental slots 24 in which move guide-studs 25 with which the legs are equipped. The links 19 are bent, as shown in Fig. 1, to enable them to operate freely.

It will be understood that the structure may be converted to sofa form by swinging the seat upwardly and rearwardly, in which operation the bed section 4 will be lowered into the box-frame 3, the intermediate section 5 will assume a vertical position, and the front section 6 will assume a position above and parallel to the section 4, the bedding, of course, being folded between the bed sections. In the folding operation, the bed-section 6 will approach the seat, and the links 19 will serve to automatically swing the legs 20 parallel with the free longitudinal edge of the seat to a folded position. In the operation of unfolding the structure, the bed will be automatically spread open and the legs 20 will be automatically extended to the position shown in Fig. 1.

What I regard as new, and desire to secure by Letters Patent, is—

1. In a structure of the character set forth, the combination of a frame, a seat adapted to swing to an inverted position in front of

said frame, a folded bed normally housed in said frame beneath said seat, and comprising an intermediate section foldably mounted on the seat and front and rear sections foldably related to said intermediate section, mechanism operative to automatically unfold the bed-sections and elevate the front and rear edges, respectively, of the front and rear bed-sections in the operation of inverting the seat, legs pivotally joined to the free longitudinal edge-portion of the seat and adapted to swing in a plane parallel therewith, and links connecting said legs with the free longitudinal edge-portion of the front bed-section.

2. In a structure of the character set forth, the combination of a frame, a seat adapted to swing to an inverted position in front of the frame, a bed normally housed in said frame beneath said seat and comprising foldably related sections, one of said sections normally lying close beneath the seat when the structure is in sofa-form, means whereby the bed will be automatically opened and elevated in the operation of swinging the seat to the inverted posi-

tion, legs pivotally connected with the free longitudinal edge-portion of the seat and adapted to swing in a plane parallel therewith, and links connecting said legs to the free longitudinal edge-portion of the front bed-section.

3. In a structure of the character set forth, the combination of a frame, a forwardly overturnable seat, a folded bed normally housed in said frame beneath said seat and comprising an intermediate section foldably mounted on the seat, sections flanking said intermediate section and foldably connected therewith, mechanism operative to unfold the bed-sections and elevate the front and rear edges, respectively, of said flanking sections, legs pivotally connected with the free longitudinal edge of the seat, guide-studs connected with said legs and movable in segmental guides with which said seat is equipped, and links connecting said legs with the longitudinal frame-member of the corresponding section of the bed.

PETER E. KROEHLER.

In presence of—

NELLIE B. DEARBORN,
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