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COMBINATION COUCH AND BED

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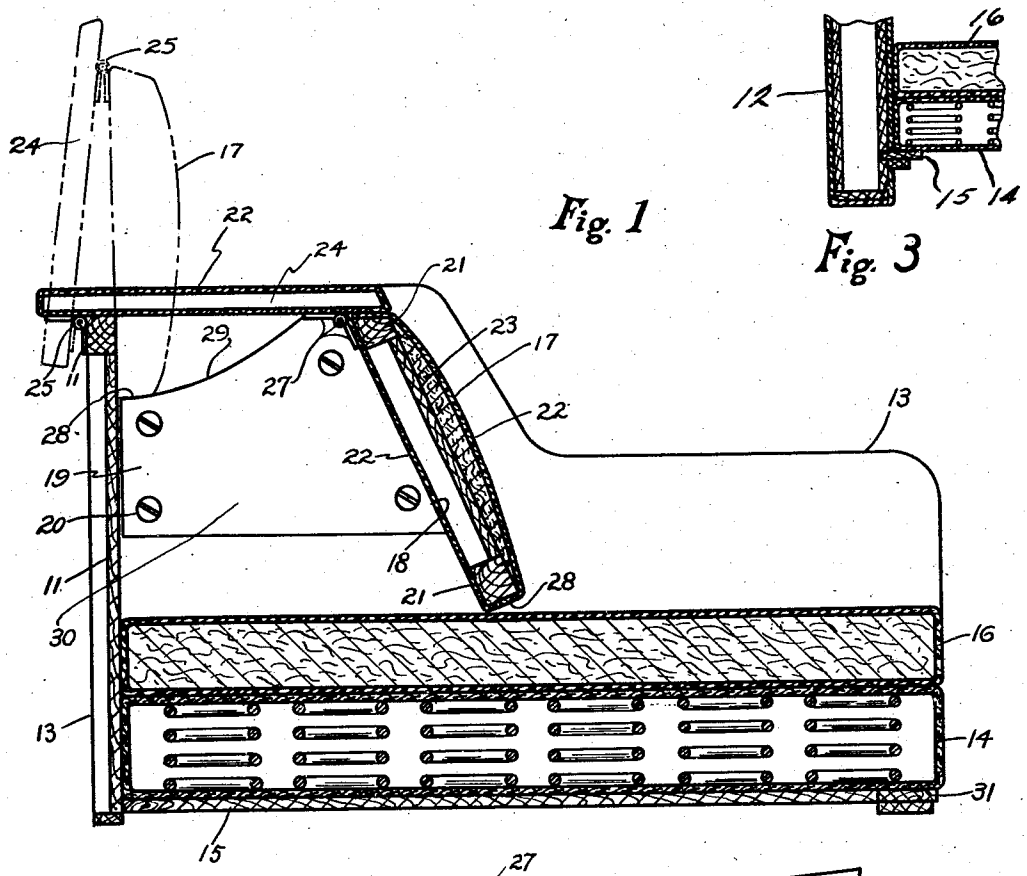


Fig. 1

Fig. 3

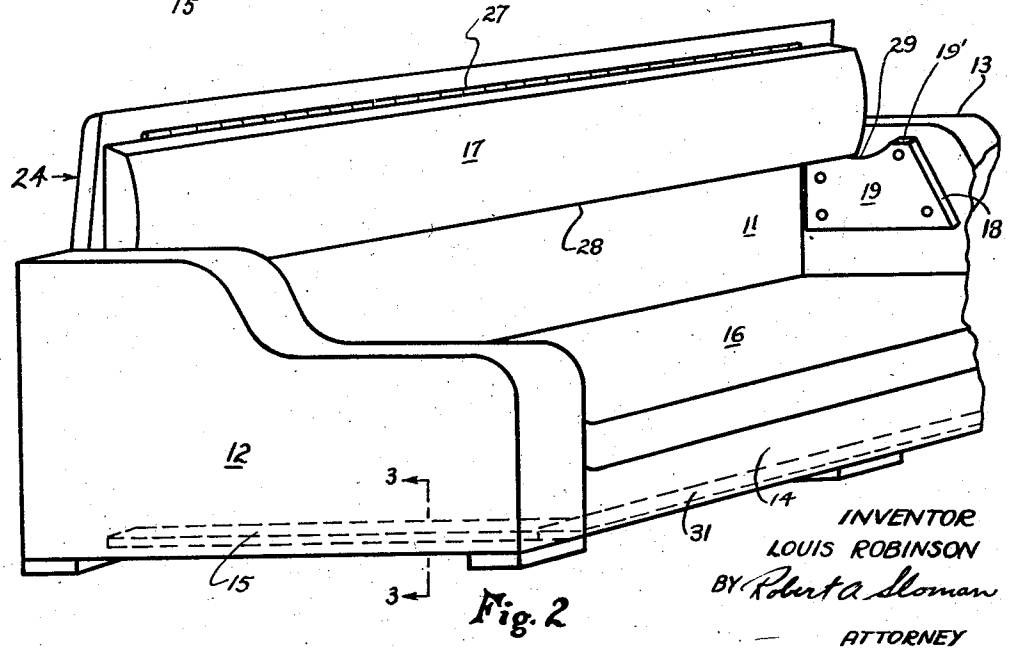


Fig. 2

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COMBINATION COUCH AND BED

Louis Robinson, Detroit, Mich.

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9 Claims. (Cl. 5—59)

This invention relates to a combination sofa and bed, and particularly to a sofa or couch with a back rest therefor which is readily displaceable to provide a substantially full sized bed. This application is a continuation in part of my application Serial No. 606,346, filed July 21, 1945.

It is the object of this invention to provide a conventionally appearing couch with a hingedly mounted back rest adapted to be tilted upwardly and backwardly into a displaced elevated position to provide a substantially full sized bed.

It is the further object of this invention to provide means in conjunction with said couch for supporting said back rest in couch as well as bed position.

It is the further object of this invention to provide a pair of irregularly shaped supporting blocks upon the inner walls of the couch arms which are adapted to support the back top and back rest in couch position, and which are adapted to support the back rest in elevated converted bed position.

These and other objects will be seen from the following specification and claims in conjunction with the appended drawing in which:

Fig. 1 is an elevational section of the couch with a dotted line indication of the back rest in converted bed position; and

Fig. 2 is a fragmentary perspective view of the combination couch and bed in converted position.

Fig. 3 is a section on line 3—3 of Fig. 2.

It will be understood that the above drawing illustrates merely a preferable embodiment of the invention, and that other embodiments are contemplated within the scope of the claims hereafter set out.

Referring to the drawing, the couch consists of an upright back portion 11 with a pair of spaced side arms 12 and 13 secured at the ends thereof and extending therefrom.

An inner spring mattress or other resilient support 14 is provided between arms 12 and 13 supported upon longitudinal slats 15 or ledges carried upon the inner walls of arms 12 and 13, and adapted for sliding adjustment thereon.

Resilient or stuffed padding 16 rests upon the top of mattress 14 providing a finished couch seat as shown in Fig. 1, and an approximately full sized bed as illustrated in Fig. 2.

The back rest 17 as shown in Figs. 1 and 2 is angularly supported at its ends upon the inclined edges 18 forming a part of the two spaced blocks 19 which are secured by screws 20 to the opposite inner ends of arms 12 and 13.

Back rest 17 consists of a rectangular framework 21 over which is provided covering 22 with resilient padding 23 interposed.

Referring to Figs. 1 and 2, a back top portion 24 is pivotally secured adjacent its longitudinal edge to the top of back portion 11 by a plurality of inter-connecting hinges 25; or by a single continuous piano hinge if desired.

A back top 24, with upholstered covering 22, supported rearwardly by hinges 25 upon the top edge of back 11, is further supported forwardly at its opposite ends upon flat top surfaces 19' forming part of blocks 19. Said back top is also pivotally joined along its forward longitudinal edge by piano hinges 27 to the corresponding upper longitudinal edge of back rest 17 as shown in Figs. 1 and 2.

Thus when used as a couch, a back top 24 is horizontal and back rest 17 hinged thereto is angularly inclined bearing against edges 18 of blocks 19 as shown in Figs. 1 and 2.

To convert said couch into a bed, back rest 17 is lifted riding upon forward edges 18 of blocks 19 and brought backwardly and down with its bottom edge 28 riding along and supported upon the arcuate portions 29 of blocks 19.

As illustrated in Fig. 2, and in dotted lines in Fig. 1, back top 24 hinged to back 11 has now assumed a substantially vertical position, while back rest 17 hingedly secured thereto, has assumed a substantially vertical position upon the top arcuate edges 29 of blocks 19. As shown in Fig. 2, practically a complete clearance of bed pad 16 is effected for attaining the maximum bed width.

Referring to Fig. 1, a storage compartment 30 for pillows, linens and blankets is provided between members 11, 17 and 24, when the combination couch and bed is used as a couch.

It will be noted that members 14 and 16 rest upon guide rails 15 on arms 12 and 13 and may be removed easily merely by sliding outwardly upon said rails.

It will be noted that blocks 19 perform at least three important functions, i. e., portions 18 provide an angular support upon which back rest 17 bears against when in couch position. At the same time, flat projecting portions 19' act as a front horizontal support for back top 24. Furthermore, it is seen that back rest 17 is further supported inasmuch as it is joined to back top 24 by hinge 27. Lastly, arcuate downwardly and rearwardly extending ledges 29 forming part of block 19, not only act as a guide in positioning back rest 17 in its elevated position, but also act as a positive support for said back rest in its final substantially vertical position, whereby it is impossible for said support to fall once elevated.

Referring again to Figures 1 and 2, it will be seen that a spacer 31 is interposed between and secured at its ends to side arms 12 and 13. While

the top surface of spacer 31 lies in the same horizontal plane as the top surfaces of guide rails 15, it is understood that said rails provide the actual support for the inner spring and mattress members 14 and 16. Said guide rails are in themselves sufficient to adequately support members 14 and 16.

Having described my invention, reference should now be had to the claims which follow for determining the scope thereof.

I claim:

1. In a combination couch and bed having spaced side arms, an upright back portion intermediate said arms, a normally horizontal back top hinged thereto, a pair of spaced blocks secured to the inner walls of said arms, each of said blocks having an upwardly inclined forward edge and a rearwardly extending downwardly curved top edge, and an inclined back rest hinged to said back top, with its rear surface bearing against the inclined edges of said blocks, said back top being adapted to be pivoted to a vertical position, with said back rest assuming a substantial vertical elevated position resting and retained against accidental movement upon said curved edges.

2. In a combination couch and bed having spaced side arms, an upright back portion intermediate said arms, a normally horizontal back top hinged thereto, a pair of spaced blocks secured to the inner walls of said arms, each of said blocks having an upwardly inclined forward edge and a rearwardly and downwardly extending top edge, and an inclined back rest hinged to said back top with its rear surface bearing against and supported upon said inclined edges, said back top being adapted to be pivoted to a vertical position, with said back rest assuming a substantially vertical elevated position with its bottom edge supported and retained against accidental movement upon said top edges.

3. In a couch having spaced side arms, horizontal back means connecting said arms, a pair of spaced blocks secured to the inner walls of the rear portions of said arms, each block having an upwardly inclined forward edge and a rearwardly and downwardly extending arcuate edge, a substantially horizontal back top hinged to said back means, and an inclined back rest hinged to said back top with its rear surface bearing against said inclined edges, said back top being adapted for pivoting to a vertical position, with said back rest assuming a substantially vertical elevated position supported and retained against accidental movement upon said arcuate edges.

4. In a combination couch and bed having spaced side arms, an upright back portion intermediate said arms, a substantially horizontal back top hinged thereto, a pair of spaced blocks secured to the inner walls of said arms, each of said blocks having a forward edge and a rearwardly extending arcuate top edge which curves slightly downwardly, and a back rest hinged to said back top with its rear surface bearing against and supported upon said forward edges, said back top being adapted to be pivoted to a vertical position, with said back rest assuming a substantially vertical elevated position resting and retained against accidental movement on said top edges.

5. In a combination couch and bed having spaced side arms, an upright back portion intermediate said arms, a pair of spaced blocks secured to the inner walls of said arms, each block having an upwardly inclined forward edge terminating in a horizontal portion, a normally horizontal back top hinged to said back portion and with its forward edges resting upon said horizontal portions, and an inclined back rest hinged to said back top with its rear surface bearing against said inclined edges.

6. In a combination couch and bed having spaced side arms, an upright back portion intermediate said arms, a pair of spaced blocks secured to the inner walls of said arms, each of said blocks having an upwardly inclined forward edge terminating in a horizontal portion, and a rearwardly extending downwardly curved top edge, a normally horizontal back top hinged to said back portion and with its forward edges resting upon said horizontal portions, and an inclined back rest hinged to said back top and bearing against said inclined portions, said back top being adapted to be pivoted to a vertical position, with the back rest assuming a substantially vertical elevated position resting and retained against accidental movement upon said curved edges.

7. In a combination couch and bed having spaced side arms, an upright back portion intermediate said arms, a pair of spaced blocks secured to the inner walls of said arms, each of said blocks having an upwardly inclined forward edge terminating in a horizontal portion and a rearwardly and downwardly extending top edge, a normally horizontal back top hinged to said back portion and with its forward edges resting upon said horizontal portions, and an inclined back rest hinged to said back top and bearing against said inclined edges, said back top being adapted to be pivoted to a vertical position, with said back rest assuming a substantially vertical position with its bottom edge resting and retained against accidental movement upon said top edges.

8. In a couch having spaced side arms, horizontal back means connecting said arms, a pair of spaced blocks secured to the inner walls of the rear portions of said arms, each block having an upwardly inclined forward edge terminating in a horizontal portion and a rearwardly and downwardly extending arcuate edge, a substantially horizontal back top hinged to said back means, and with its forward edges resting upon said horizontal portions, and an inclined back rest hinged to said back top and bearing against said inclined edges, said back top being adapted for pivoting to a vertical position and with said back rest assuming a substantially vertical elevated position resting and retained against accidental movement upon said arcuate edges.

9. In a combination couch and bed having spaced side arms, an upright back portion intermediate said arms, a pair of spaced blocks secured to the inner walls of said arms, each of said blocks having a forward edge and a horizontal portion terminating in a rearwardly extending arcuate top edge which curves slightly downward, a substantially horizontal back top hinged to said back portion with its forward edges resting upon said horizontal portions, and a back rest hinged to said back top with its rear surface bearing against said forward edges, said back top being adapted to be pivoted to a vertical position, with said back rest assuming a substantially vertical elevated position resting on said top edges.

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