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SETTEE CONVERTIBLE INTO A BED

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Fig. 1.

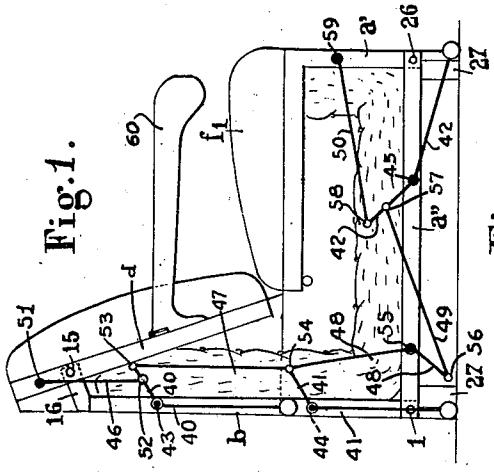
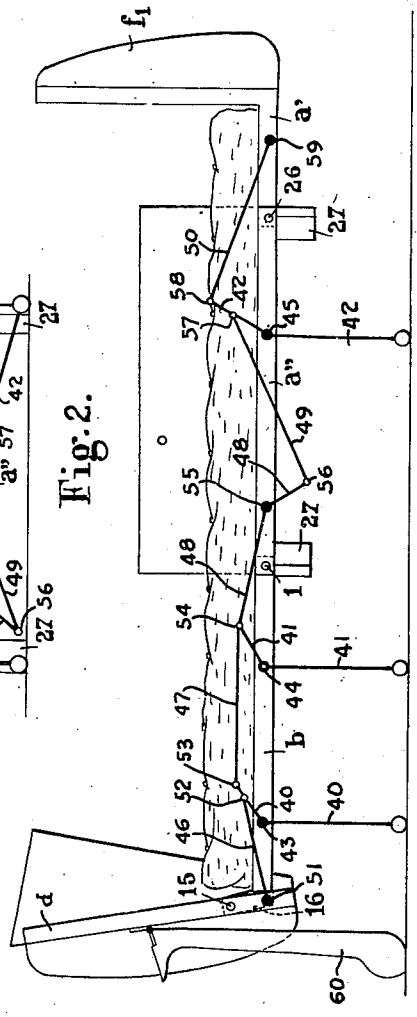


Fig. 2.



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SETTEE CONVERTIBLE INTO A BED

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6 Claims. (Cl. 5—42)

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The present invention relates to a settee convertible into a bed.

Bed-davenports of the folding type have had a disadvantage in that the folding and unfolding levers extend above the bed in the opened position so as to make it inconvenient to arrange the bed sheets and covers and so as to render the bed unsightly.

The mattress is to be tilted about an axis parallel with the length of the seat and back in such a manner that one of its elements can be swung upwards together with that portion of the mattress which is supported thereby when the piece of furniture is to be used as a davenport.

Due to the lowering of the back after the dropping of the pivoted section of the mattress, the extended portion of said back stands above the floor when the device is in the settee condition at a much lower position with relation to the floor so that it becomes quite easy to tuck in the bed clothes at the wall side.

A further improvement which results from the provision of such a hinged back is the widening of the mattress so that the piece of furniture is more comfortable. The mattress may be provided with an additional hinge, and the bed may be nearly two meters wide, so that two individuals can be accommodated in the bed.

Where no more than one hinge is provided, the mattress may be folded only once when the bed is converted into a settee, which is a further advantage over the prior construction in which the back is fixed. Moreover, since the entire turned up portion of the mattress is located behind the back, the seat of the settee can be dropped down to the most comfortable level.

The invention further relates to a new lever construction and arrangement connected to the first mattress supporting-frame part and a second mattress supporting-frame part pivotally connected to the first supporting-frame part at an end thereof to form the settee support when folded at an angle and to form a bed in the unfolded position.

An object of the invention is to provide a settee convertible into a bed comprising pivotally connected first and second mattress supporting-frame parts, foldable to form a settee and unfoldable to form a bed, the back pivotally connected to an end of the first supporting-frame part and the seat pivotally connected to the end of the second supporting-frame part opposite the end connected to the first frame part, leg levers connected to the first frame part, a lever fulcrumed on the second frame part and connected to one

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of said levers, a link between said levers, a third leg lever connected to the second frame part near the end to which the seat is connected, a link member joined to the third leg lever and to the fulcrumed lever, a connecting member pivoted to the back and to the other of said levers, and a second connecting member between the seat and the third lever, the back being pivotally movable about a point intermediate between its ends.

Other and further objects of the present invention will appear from the more detailed description set forth below, it being understood that such detailed description is given by way of illustration and explanation only and not by way of limitation, since various changes therein may be made by those skilled in the art without departing from the scope and spirit of the present invention.

An embodiment according to the invention will now be described, reference being had to the appended drawings.

Figure 1 is a diagrammatical view in section of the settee in the settee condition.

Figure 2 is a view of the embodiment of Fig. 1 in the "bed" condition.

The modification illustrated in Figs. 1 and 2 illustrates the front section of the mattress which is divided into two sub-sections a', a'' which are interconnected at either side thereof by a pivot **26**. Seat f_1 is rigidly connected to the first subsection a' of the mattress. The frame work which may be of metal thus comprises the three elements, a', a'' and b which may be articulated about the horizontal axes **1** and **26** and which are suitably braced.

The back d is pivoted at **15** to the brackets **16** which are rigidly secured to section b. The back d can be tilted rearwardly in opening the bed. However, the seat is not rocked together with the back and instead is set erect at the same time as the sub-section a' is laid down moving from the pivots **26**.

The sections of the mattress are provided with two sets of several wheel-supported folding legs **40, 41, 42**, articulated around pivots **43, 44, 45**. These sections and the legs of each set are connected by a plurality of linked and lever members **46, 47, 48, 49, 50**. Link **46** is articulated with the back d around pivot **51**, and with the leg **40** around the pivot **52**. Link **47** is articulated with legs **40** and **41** respectively around pivots **53** and **54**. A lever **48** is fulcrumed on section a'' around pivot **55** and is articulated at one end with link **47** and leg **41** around pivot **54**, and at the other end with link **49** around pivot **56**; link **49** is articulated at the other end with leg

42 around pivot 57. Link 50 is articulated with leg 42 around pivot 58, and with section *a'* around pivot 59.

When the piece of furniture is in the bed condition, as represented in Fig. 2, legs 40, 41, 42 are arranged in support-position thereof; when the piece of furniture is refolded to its davenport condition, as represented in Fig. 1, these legs are folded back on the sections of the mattress to which they are pivoted.

The advantage of easily tucking in the bed clothes is provided on the one side due to the reduced height of the back and also on the opposite side in spite of the presence of the seat secured thereto (see Fig. 2). The back in its upset position rests on the floor by means of a prop to the back or through the medium of the arm rests 60 pivotally connected to the middle of the back.

In the "davenport" condition, the davenport construction stands on legs 27 which are rigid to the seat bottom and secured to the sub-section *a''*.

It is thought that the invention and its advantages will be understood from the foregoing description and it is apparent that various changes may be made in the form, construction and arrangement of the parts without departing from the spirit and scope of the invention or sacrificing its material advantages, the form hereinbefore described and illustrated in the drawings being merely a preferred embodiment thereof.

What I claim is:

1. A settee convertible into a bed comprising a first mattress supporting-frame part, a second mattress supporting-frame part pivotally connected to said first supporting-frame part at an end thereof to form the settee support when folded in a position at an angle to said first supporting-frame part and to form a bed in the unfolded position, a back pivotally connected to the end of said first supporting-frame part opposite said second supporting-frame part, a seat pivotally connected to the end of said second supporting-frame part opposite the end which is connected to said first-supporting-frame part, a pair of leg levers articulated to said first supporting-frame part, a lever fulcrumed on said second supporting-frame part which is pivotally connected to one of said pair of levers, a link pivoted to and between the levers of said pair, a third leg lever articulated to said second supporting-frame part adjacent the end to which the seat is connected, a link member articulated to said third leg lever and to said fulcrumed lever, a connecting member pivoted to the back and to the other of said pair of leg levers, and a second connecting member pivoted to and between the seat and the third lever, said back being pivotally connected at a point intermediate its ends and to the upper end of said first supporting-frame part.

2. A settee as in claim 1 wherein the levers of said first pair of leg levers extend substantially in alignment with said first supporting-frame part in the settee form.

3. A settee as in claim 1 including an arm rest and means pivotally connecting said arm rest to the back whereby the arm rest may be swung into substantial alignment with the back to extend beyond one end thereof to form an end support for the bed.

4. A settee as in claim 1 wherein said third leg lever is provided at its free end with a supporting wheel to facilitate the folding, unfolding and supporting of the settee.

5. A settee as in claim 1 wherein the other lever of said pair of levers is provided at its free end with a supporting wheel to facilitate the folding, unfolding and supporting of the settee.

6. A settee as in claim 1, wherein the first one said lever of the pair of levers is provided at its free end with a supporting wheel to facilitate the folding, unfolding and supporting of the settee.

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