June 27, 1944. M. FOX 2,352,375

SOFA BED

Filed Sept. 12, 1942 2 Sheets-Sheet 1

Fig. 1.

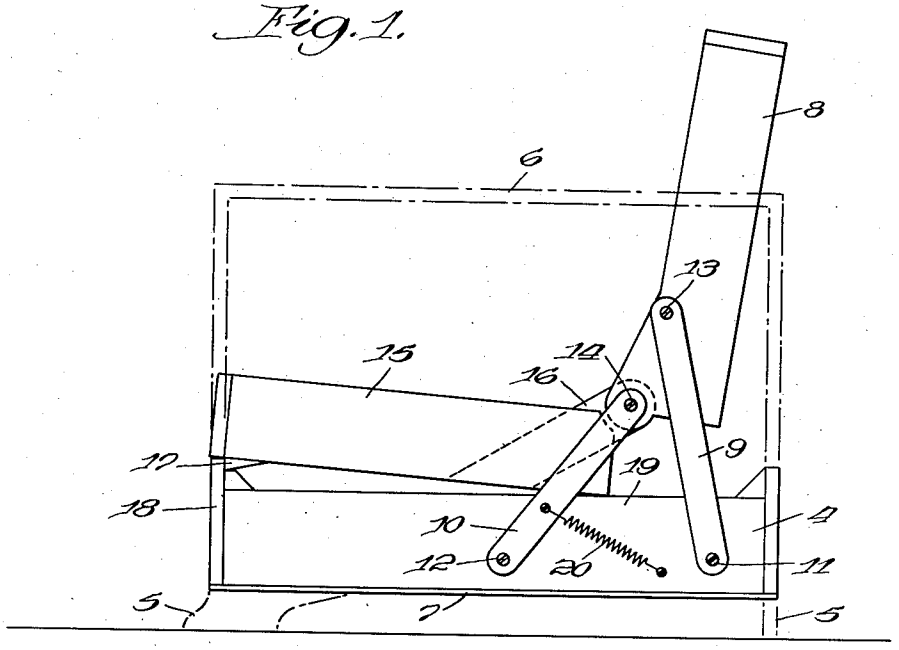
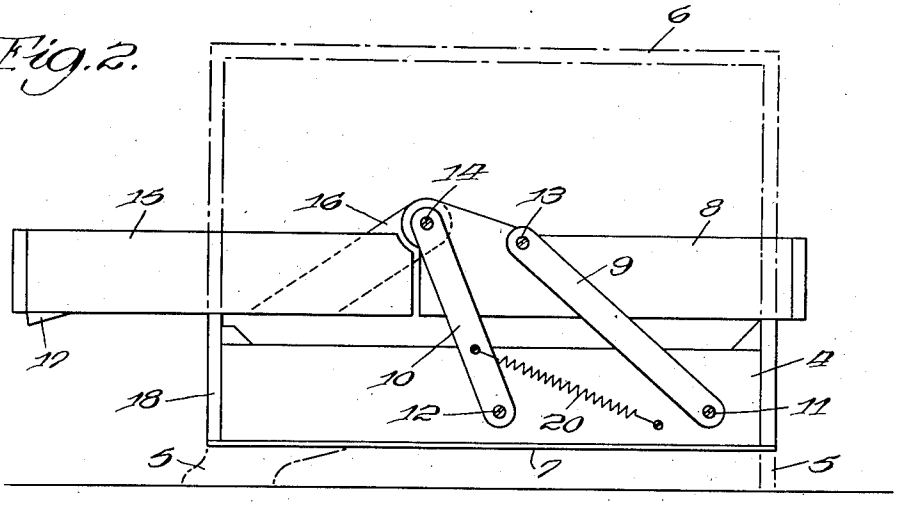


Fig. 2.



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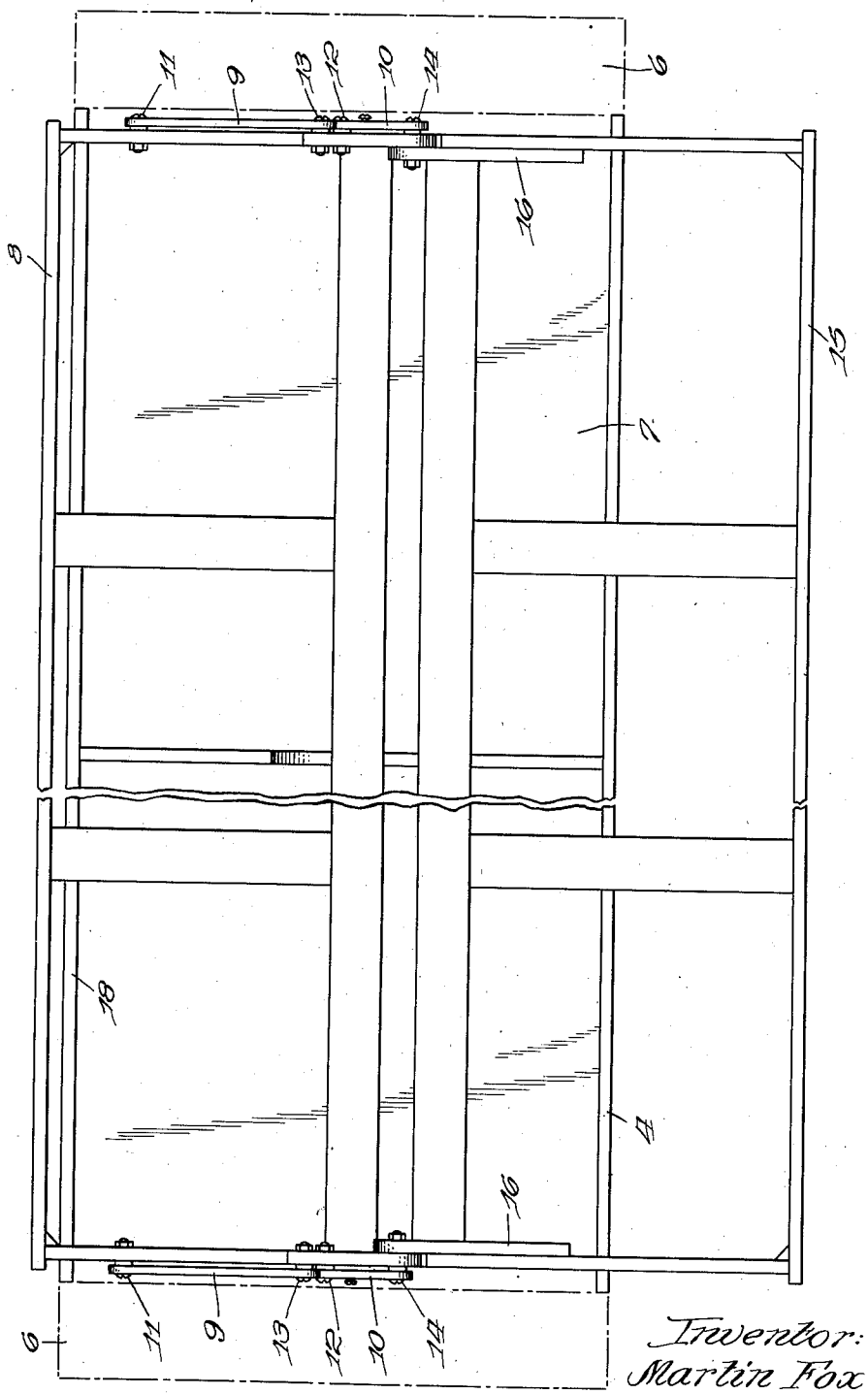


Fig. 3.

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2,352,375

UNITED STATES PATENT OFFICE

2,352,375

SOFA BED

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Application September 12, 1942, Serial No. 458,101

2 Claims. (Cl. 5—47)

This invention relates to sofa beds, and more particularly to the type in which two sections forming a seat portion and a back portion are hingedly connected together and mounted on a supporting frame by means of pitmans in such a manner that the device may be readily converted from a sofa to a bed.

The primary object of the invention is to provide a structure which utilizes a minimum of strategic materials, such as steel, and may be fabricated for the most part from wood.

Another object of the invention is to provide a convertible sofa having an inclined back section and a forwardly and upwardly inclined seat section in which are mounted two sections which serve as a mattress when the sofa is converted into a horizontal bed.

The sofa bed is of the general type shown in my Patent No. 2,209,880, issued July 30, 1940, although in the present simplified device the back cushion does not have the same movement as in the patented structure.

The invention is illustrated in a preferred embodiment, in the accompanying drawings, in which—

Figure 1 is a side elevational view showing the position of the various pitmans or links when the device is turned to form a sofa; Figure 2, a view similar to Figure 1 but showing the sections turned to form a bed; and Figure 3, a fragmentary plan view of the device opened up to form a bed.

In the embodiment illustrated, a supporting base frame 4 may be provided with suitable legs, as indicated by dotted lines at 5, and arm rests 6 which are also indicated by dotted lines. The supporting base frame may be in the form of an open top box having a bottom wall 7 so that a container is provided for the storage of bed clothing, and the like.

A back section 8 is movably mounted on the base frame by means of a pair of rear pitmans 9 and shorter front pitmans 10 which are pivotally connected to the supporting frame, as indicated at 11 and 12, respectively, and to the back frame, as indicated at 13 and 14, respectively. It will be understood that the construction is the same at each end of the supporting frame. A seat section 15 has an extension 16 which is hinged to the back section 8 at the pivot 14. It will be understood that each of the sections 8 and 15 form a box to receive a suitable upholstered cushion which may serve as a mattress when the device is transformed into a bed.

Due to the arrangement of the pivots and lengths of the pitmans 9 and 10, the back section and seat section will move into the same plane when the device is opened into a bed, as indicated in Figure 2. The central connected portions of the sections are supported by the pitmans, and the free ends of the sections will rest on the supporting frame. No other connections or latches are needed to provide a firm bed structure.

The seat section 15 is provided at its front end with a downwardly extending dog 17 which is adapted to engage against the front panel 18 of the supporting base frame when the device is turned to form a sofa. In this position the rear corner portions of the seat frame will rest on the end panels 19 of the supporting base frame and will lock the parts automatically, by gravity, in sitting position. If desired, counterbalancing tensioning springs 20 may be extended between the pitmans 10 and the end panels 19 of the supporting frame to facilitate movement of the parts.

It will be understood that to transform the sofa into a bed, it is merely necessary to raise slightly the front edge of the seat portion, to release the dog 17, and the sections may then be swung into the position shown in Figure 2. By raising the back section the bed is changed back, and locked, into a comfortable attractive sofa.

The foregoing detailed description has been given for clearness of understanding only, and no unnecessary limitations should be understood therefrom for some modifications will be obvious to those skilled in the art.

I claim:

1. A sofa bed, comprising: a supporting base frame having end panels and side panels; a back section pivotally mounted on said base frame by means of a pair of spaced pitmans at each end of the base frame, the rear pitmans being longer than the front pitmans; a seat section hinged to said back section so as to form a horizontal extension thereof when the back section is swung down to form a bed, and when in sitting position having its rear portion resting on end panels of supporting frame and being inclined upwardly and forwardly with its front portion resting on the front side panel of the supporting frame; and means on the front of the seat section for locking it automatically in sitting position against forward or rearward movement with respect to said supporting frame.

2. A sofa bed as specified in claim 1, in which the means for releasably locking the seat section in sitting position is a downwardly extending fixed dog adapted to engage the front of the supporting base frame and restrain forward movement of said seat section which is held against rearward movement by the pitmans and end panels.

MARTIN FOX.