April 16, 1968 A. G. SCHINDLER 3,377,635

COMBINATION FOLDABLE DOUBLE BED AND SOFA

Filed Aug. 1, 1966

Fig. 1.

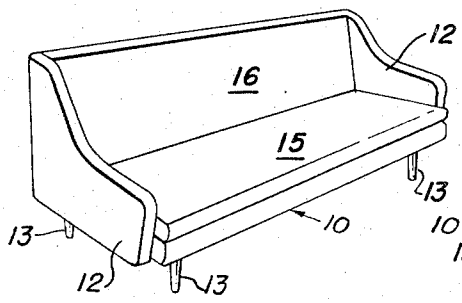


Fig. 2.

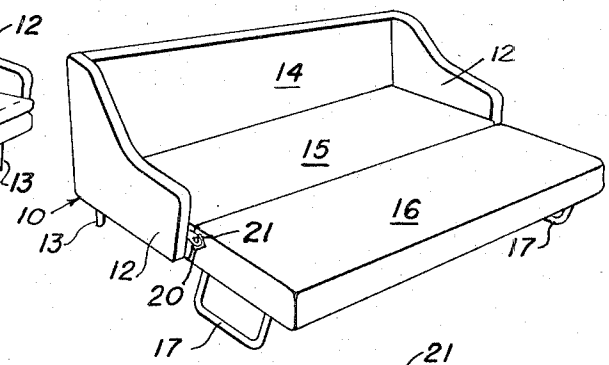


Fig. 3.

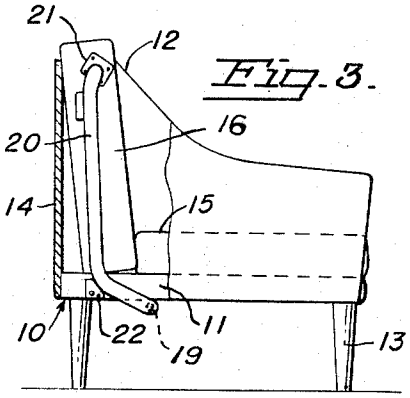


Fig. 4.

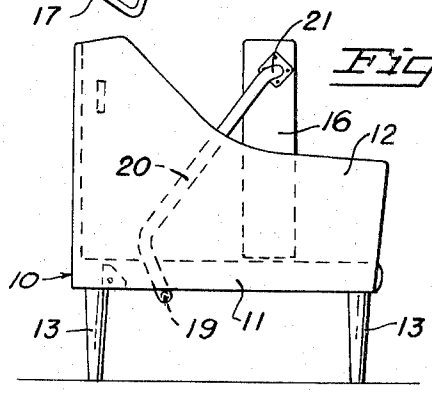


Fig. 5.

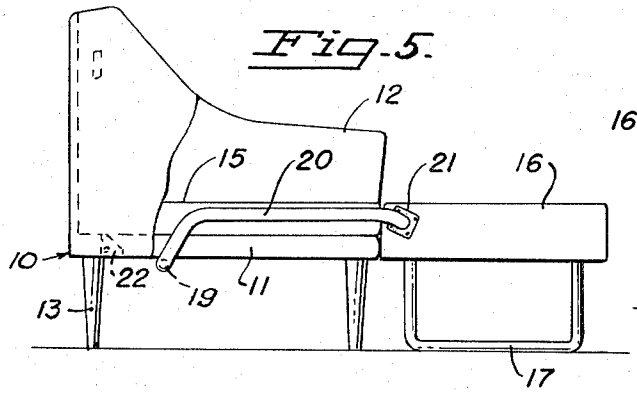


Fig. 6.

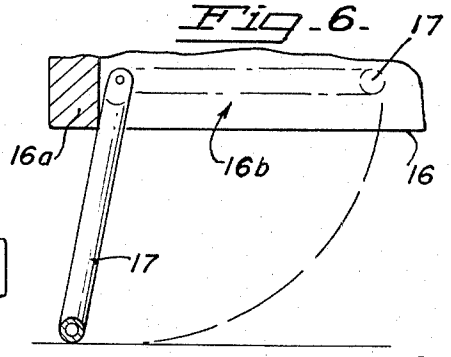


Fig. 7.

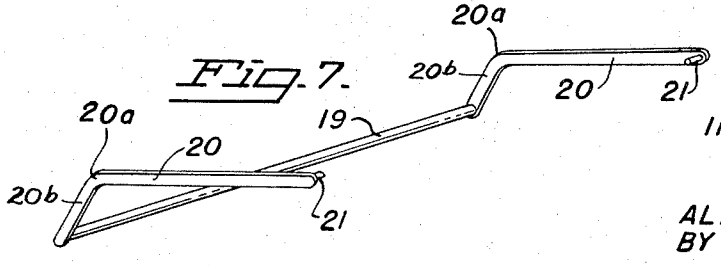
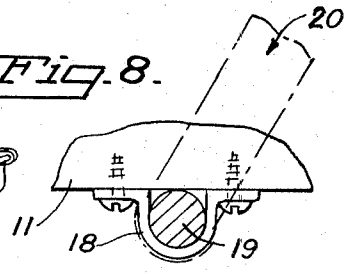


Fig. 8.



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COMBINATION FOLDABLE DOUBLE BED AND SOFA

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ABSTRACT OF THE DISCLOSURE

The combined sofa and double bed has a frame supporting a moveable back member and horizontal cushion. Similar link members are arranged at the ends of the back member. The lower portion of each of the link members is bent to provide a forwardly extending leg. The free end of each leg is pivotally connected to the frame member and the upper end of each link member is pivotally connected to the upper end portion of the back member. The link is sufficiently long to control the movement of the back member from an upright position to a horizontal position forwardly of and alongside the cushion, and legs are pivotally carried by the back member to swing outwardly from the back thereof and support the back member above a floor.

This invention relates to an improved article of household furniture which by the adjustment of certain parts thereof may be adapted for use either as a double bed or a sofa.

The primary object of the present invention is to provide an article of furniture having an articulate, adjustable back member which is normally positioned in a substantially vertical position to provide a back rest for a sofa, but which is arranged for adjustment to a forwardly disposed horizontal position to convert the sofa into a double bed.

Another object of my invention is to provide an article of furniture of the kind characterized, having an adjustable back member articularly supported on an elongated frame by means of a pair of pivoted links or bars, the back member being arranged for positioning in a substantially upright position behind an elongated padded seat to provide a back rest for a sofa, and such back member being adapted to be swung forwardly and arranged in a substantially horizontal position alongside and forwardly of the seat to provide a double bed.

Other and further objects of my invention will be pointed out hereinafter or will be indicated in the appended claims or will be obvious to one skilled in the art upon an understanding of the present disclosure. For the purpose of this application, I have elected to show herein certain details of a combination double bed and sofa which is illustrative of my invention; it is to be understood, however, that the embodiment of my invention herein shown and described is for puruposes of illustration only, and that it is not to be regarded as exhaustive of the variations of the invention in the art.

In the accompanying drawing:

FIG. 1 is a perspective view of the article of furniture embodying the principles of my invention, showing the same in the form of a sofa;

FIG. 2 is a perspective view of the same article of furniture, showing the sofa converted into a double bed;

FIG. 3 is a side elevational view of the article of furniture, showing parts broken away and in section, and also showing the adjustable back member positioned to provide a back rest for the sofa;

FIG. 4 is a side elevational view of the article of furniture, showing the back member in a partially adjusted forward position;

FIG. 5 is a side elevational view showing the back member fully adjustable to its forward position to complete the conversion of the article of furniture from a sofa to a double bed;

FIG. 6 is an enlarged fragmentary view of the back member, showing one of the supporting legs in a downwardly swung position to support the back member in a horizontal position;

FIG. 7 is a perspective view of the means used to facilitate and control the adjustment of the back member when converting the sofa into a double bed and when converting the double bed into a sofa; and

FIG. 8 is an enlarged detailed view showing the bearing support for the rotatable rod which is secured to the two adjusting arms associated with the back member.

Referring to the drawing, the numeral **10** designates an upholstered frame which embodies an elongated horizontal bottom member **11** and end members **12**. The frame is of the type commonly used in the construction of a couch or sofa, and suitable legs **13** are provided to support the frame above a floor. The end frame members provide the side arms for the sofa as well as means to attach and support a rear panel **14**. Normally resting on the bottom frame member **11** is a removable elongated cushion **15** which is adapted to provide a seat for the sofa and a mattress portion of a double bed.

An elongated upholstered back member **16** having substantially the same length as the cushion **15** is adapted to be supported on the bottom frame member **11** in a substantially vertical or slightly inclined position to provied a back rest for the sofa. The back member **16** when positioned to provide a back rest for the sofa is arranged with its elongated lower edge resting on the bottom frame member **11** and its upper edge portion engaging with the back panel **14**. When so positioned, the lower edge portion of the back member **16** is disposed rearwardly of and in engagement with the rear longitudinal edge of the cushion or seat **15**. The back member **16** preferably embodies a structurally rigid upholstered rectangular frame **16*a*** which provides a recess **16*b*** therein for receiving pivoted U-shaped legs **17**, the said legs being pivotally connected to ends of the frame **16*a***, and such legs being adapted to swing outwardly in opposite directions from concealed positions within the recess to slightly inclined positions to engage with the floor, as shown in FIG. 6. When in outwardly extended supporting positions, the legs **17** are braced against the frame **16*a*** to hold them in suitable positions for properly supporting the back member **16** in a horizontal position.

To provide articulate means for conveniently changing the position of the back member **16** from a slightly inclined or substantially vertical position wherein it provides a back rest for a sofa (FIG. 1) to a horizontal position in front of and alongside the cushion **15** providing a mattress portion of a double bed (FIG. 5), I preferably employ the mechanism about to be described. Supported in suitable bearings **18** secured as by screws to the underneath side of the bottom frame member **11** is a rotatable rod **19** which extends longitudinally beneath the said bottom frame member. Secured to the ends of the rod **19** are similarly shaped and correspondingly positioned bars or link members **20** which are pivotally connected as at **21** to opposite ends of the frame **16*a*** of the back member **16** at points near the upper edge thereof (FIG. 3). The bars or link members **20** are similarly bent as at **20*a*** to provide short offset portions **20*b*** which are adapted to rest against stop members **22** secured to opposite end portions of the bottom frame member **11** to prevent any possible rearward displacement of the back member **16** when a pressure is imposed thereon as by a person sitting on the sofa. When the back member **16** is in a position providing a back rest for the sofa, the upper straight

ortions of the bars or link members **20** lie alongside the nds of the back member in concealed positions.

To convert the sofa (FIGS. 1 and 3) into a double bed FIGS. 2 and 5), the cushion **15** is first removed to pro-ide sufficient clearance to allow the back member **16** to e adjusted to a horizontal position in front of the frame nember **11**. The upper portion of the back member **16** is ulled or adjusted forwardly to an upright position above he bottom frame member **11**, as shown in FIG. 4, after vhich the U-shaped legs **17** are swung outwardly to posi-ions for supporting the back member in a horizontal posi-ion above the floor. The back member is then turned in counter-clockwise direction through an angle of about inety degrees about the pivots **21** and further adjusted orwardly and downwardly to a horizontal position in ront of the bottom frame member **11** with the U-shaped egs **17** resting on the floor. The cushion **15** is then re-laced upon the bottom frame member **11**, alongside the ow horizontally positioned back member **16**, as shown n FIGS. 2 and 5, to complete the conversion of the sofa into a double bed. The cushion **15** then provides a por-ion of a mattress for the double bed while the then hori-zontal back member provides the remaining mattress por-ion. The lengths of the bottom frame member **11**, the ushion **15** and the back member **16** are such that the louble bed is adapted to accommodate comfortably two persons reclining on the cushion and the horizontally positioned back member. Preferably the cushion and the back member have substantially the same thickness.

Although not shown on the drawing, a cloth covering may be attached to the back member to cover both the back member and the cushion as well as the intervening space between them.

It is to be noted that the link members **20** are sufficiently long to control the movement of the back member **16** when adjusted from its back rest position (FIG. 3) to its horizontal position forwardly of and alongside the cushion **15** (FIG. 5).

I claim:

1. An article of furniture of the convertible type, adapted for use as a sofa or a double bed, comprising in combination:

(a) an elongated frame having a substantially horizontal bottom member and end members;

(b) an elongated cushion normally resting on the bottom member of the frame to provide a substantially horizontal seat for the sofa and a mattress portion for the double bed;

(c) an adjustable elongated back member adapted to be supported on the frame in an upright position to provide a back rest for the sofa, the back member being adjustable to a substantially horizontal position forwardly of and alongside the cushion to provide a mattress portion for the double bed;

(d) pivoted legs connected to the ends of the back member, the said legs being adjustable to position extending outwardly from the back member to support the back member above a floor surface; and

(e) similar link members arranged in substantially corresponding positions at the ends of the back member,

the lower portion of each of said link members being bent to provide a forwardly extending leg, the free end of said leg being pivotally connected to the bottom frame member, the upper end of each of said link members being pivotally connected to the back member adjacent the upper edge thereof, the link members being sufficiently long to control the movement of the back member when adjusted from an upright position to a substantially horizontal position forwardly of and alongside the cushion, a stop on said frame contacting said link when in upright position to limit the rearward pivotal movement of each link.

2. An article of furniture of the convertible type, adapted for use as a sofa or a double bed, comprising in combination:

(a) an elongated frame having a bottom member and end members;

(b) a removable elongated cushion resting on the bottom member to provide a substantially horizontal seat for the sofa and a mattress portion for the double bed;

(c) an adjustable, elongated back member adapted to be supported on the frame in an upright position to provide a back rest for the sofa and in a substantially horizontal position to provide a mattress portion for the double bed, the back member having:

(1) pivoted legs connected to end portions of the back member and normally arranged in concealed positions inside the back member, the said legs being adjustable to positions extending outwardly from the back member to support the back member above a floor surface;

(2) a rotatable rod extending beneath and carried by the bottom frame member in forward spaced relation to the rear edge thereof; and

(3) similar link members arranged in substantially corresponding positions at the ends of the back member, the lower portion of each of said link members being bent to provide a forwardly extending leg, the free end of said leg being rigidly connected to said rod to pivot therewith, the upper end of each of said link members being pivotally connected to the back member adjacent the upper edge thereof, the link members being sufficiently long to control the adjustment of the back member from the upright position to the horizontal position alongside and forwardly of the cushion.

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