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DETACHABLE INSIDE ARM REST FOR SOFA BED

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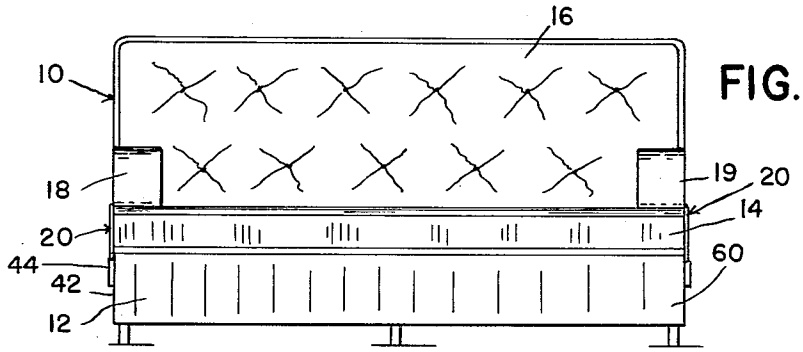


FIG.1.

FIG.3.

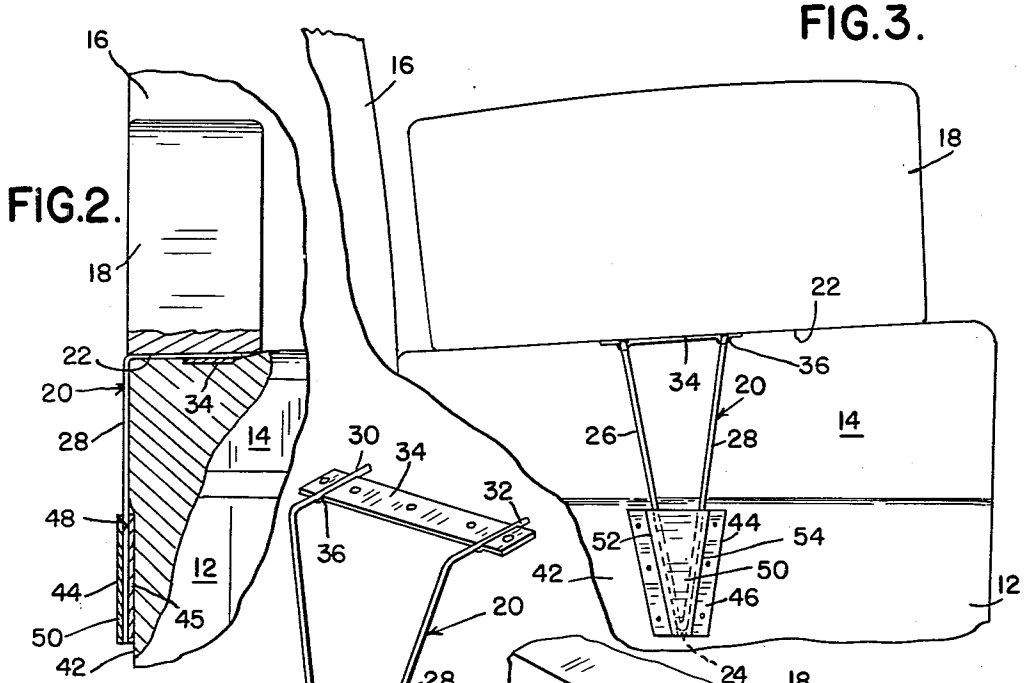


FIG.2.

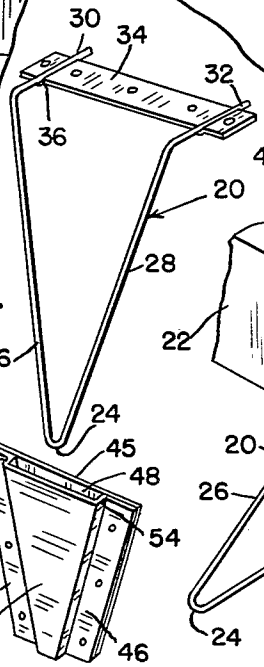
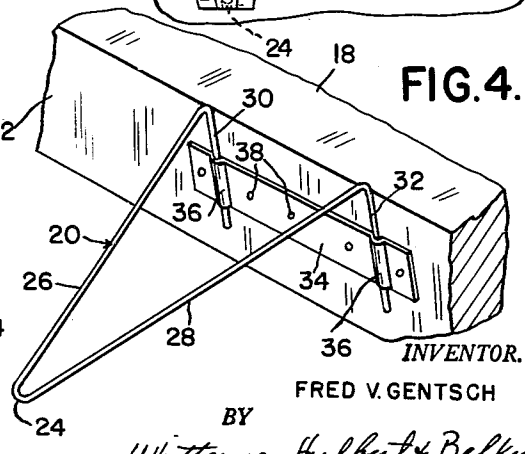


FIG.5.

FIG.6.

FIG.4.



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DETACHABLE INSIDE ARM REST FOR SOFA BED

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1 Claim. (Cl. 155—198)

This invention relates to sofa beds or the like and more particularly to a sofa bed having inside arm rests which are removably mounted thereon.

A sofa bed or studio couch is designed so that it may be converted from an ordinary couch or sofa of the usual living room variety into a bed for sleeping. In small apartments and especially in house trailers, space is often a limiting factor which must be considered in the construction of a sofa bed. The present construction is designed to reduce the overall length of the sofa to a minimum while at the same time providing ample sleeping space when the sofa is converted to a bed.

One object of this invention is to provide novel means for removably mounting the arm rests on the frame of the sofa bed.

Another object of the invention is to provide a construction wherein the removable arm rests overlie the opposite side edge portions of the sofa, thereby reducing the overall length of the sofa bed without reducing the sleeping space available when the arm rests are removed.

Other objects of the invention will become apparent as the following description proceeds, especially when taken in conjunction with the accompanying drawing, wherein:

Figure 1 is a front elevation of a sofa bed incorporating the features of the present invention;

Figure 2 is an enlarged detail view of a portion of the sofa bed shown in Figure 1;

Figure 3 is a side elevational view of the portion of the sofa bed shown in Figure 2;

Figure 4 is a perspective view of an arm rest having a rigid mounting member secured to the underside thereof;

Figure 5 is a perspective view of the mounting member shown in Figure 4; and

Figure 6 is a perspective view of the bracket for receiving the mounting member, which is adapted to be secured to the frame of the sofa bed.

Referring now more particularly to the drawing, and especially to Figure 1 thereof, the sofa bed is generally indicated at **10** and comprises a supporting frame structure **12** on the top surface of which rests a cushion or mattress **14** which extends for substantially the full length of the frame. The back **16** of the sofa bed is secured to the frame and projects upwardly therefrom and extends along the rear portion of the sofa bed.

Arm rests **18** and **19** are provided at opposite ends of the couch. These arm rests are constructed of suitable cushioning material preferably covered by the desired fabric material and are removably mounted on the sofa bed by means described more fully hereinafter.

Referring now to Figure 4, it will be seen that a rigid bar member **20** is secured to the underside **22** of arm rest **18**. In detail, the bar member **20** will be seen to be bent at its mid-portion **24** to provide the diverging legs **26** and **28**. Parallel terminal portions **30** and **32** connect into the upper ends of the legs and extend normal to the plane of the legs. These terminal portions are secured to the underside of arm rest **18** by means of a metal strap **34** which is formed with recesses or grooves **36** which

clamp over the respective terminal portions. The strap **34** is securely fastened to the underside of the arm rest as by screws **38**.

As seen in Figure 2, the leg members **26** and **28** define a depending portion of the rigid bar member which extends downwardly from the outer side edge of the arm rest.

Secured as by screws to a side **42** of the frame is a bracket **44**. This bracket may be formed of ordinary sheet metal and comprises the inner flat sheet metal portion **45** and the outer sheet metal portion **46** which is formed in the manner shown in Figure 6 to provide a slot indicated at **48**. The outer wall **50** of the slot is spaced from the inner wall of the sheet metal portion **45** a distance which is approximately equal to the thickness of the rigid bar member **20**, and the opposite walls **52** and **54** of the slot converge in a downward direction and together form an angle which is equal to the angle formed by the legs **26** and **28** of the bar member.

As seen in Figure 3, when the arm rest is mounted in position on the sofa bed, the lower end portions of the depending legs **26** and **28** extend into the slot of bracket **44**. The opposite walls **52** and **54** of the slot, converging at the same angle as the legs of the bar member, engage the legs of the bar member along the full length of that portion of the legs received in the slot so as to provide a substantially rigid mounting. The weight of a person's arm supported by the arm rest tends to press the legs of the bar member deeper into the slot and thereby further increase the rigidity of the mounting.

The arm rest **19** is removably mounted on the opposite side **60** of the sofa frame by means of a rigid bar member, strap and bracket identical to those illustrated in Figures 5 and 6. Thus a second bar member **20** is secured to the underside of arm rest **19** by a strap **34**, and the depending legs of the bar member extend downwardly from the outer side edge of arm rest **19** and are removably received in the slot of a second bracket **44** which is secured to the frame **12** at side **60** of the latter.

A strip of fabric material may be provided if desired to cover and conceal the brackets, being of course open at the top to permit the legs of the bar members to be inserted into the brackets.

When it is desired to use the sofa bed for sleeping purposes, the arm rests are removed readily and easily by merely raising the same to lift the legs of the bar members out of the brackets. When the arm rests are again mounted upon the soft bed, the overall length of the sofa bed is not increased, as will be seen in Figures 1 and 2, because the depending legs **26** and **28** extend downwardly from the outerside edges of the arm rests so that the latter directly overlie the adjacent side edge portions of the sofa bed frame. Of course, if more seating space is desired, or required, and there are no limiting space problems, the arm rests may be turned 180° in which case the depending legs will just as easily fit into the brackets and the arm rests will project laterally beyond the opposite sides of the sofa bed frame with the leg members **26** and **28** depending from the inner side edges of the arm rests.

It will be understood that while the arm rests and removable mountings have been described in connection with a sofa bed, they may be applied to advantage on many other pieces of furniture, such as lounges, chairs and the like.

It will also be understood that, instead of turning the arm rests 180° to obtain more seating space as described in the preceding paragraph, the screws **38** securing straps **34** to the arm rests may be loosened permitting the terminal portions **30** and **32** of the bar members to be removed. The bar members alone may then be turned 180° and the terminal portions inserted in the grooves **36** from the opposite side so that the leg portions depend

from the inner side edges of the arm rests, after which the screws **38** may again be tightened.

What I claim as my invention is:

In a sofa bed or the like having a supporting frame and at least one removable arm rest, means for removably mounting said arm rest on one side of the frame in overlying relation to the adjacent side edge portion of the frame, said means comprising a rigid bar member bent at its mid-portion to provide legs diverging from said portion, parallel terminal portions integrally connecting into the ends of the respective legs and extending at right angles to the plane of the legs, means for removably securing said terminal portions to the underside of said arm rest, said terminal portions extending transversely of said arm rest and said legs depending from the outer side edge of said arm rest, said securing means comprising a strap removably secured to the underside of said arm rest, said strap having grooves in the upper surface extending transversely of said arm rest and receiving said

terminal portions and cooperating with the underside of said arm rest to frictionally clamp said terminal portions, and a bracket secured to said one side of the frame, said bracket having an upwardly opening slot formed with opposite side walls which diverge upwardly at substantially the same angle as the angle between said legs, whereby to removably receive said legs in said slot.

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