Jan. 15, 1952 E. R. MILLER 2,582,555

SECTIONAL DIVAN

Filed March 4, 1948 2 SHEETS—SHEET 1

Fig. 1.

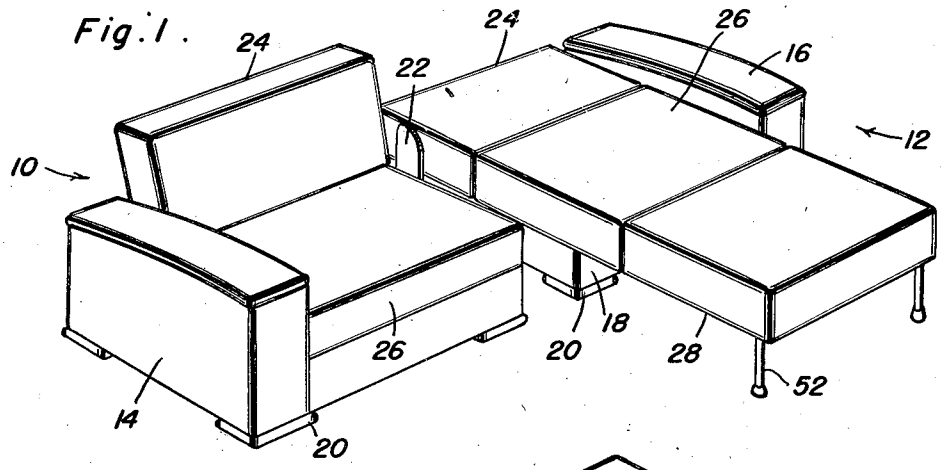


Fig. 7.

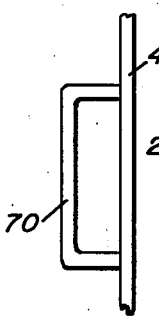


Fig. 2.

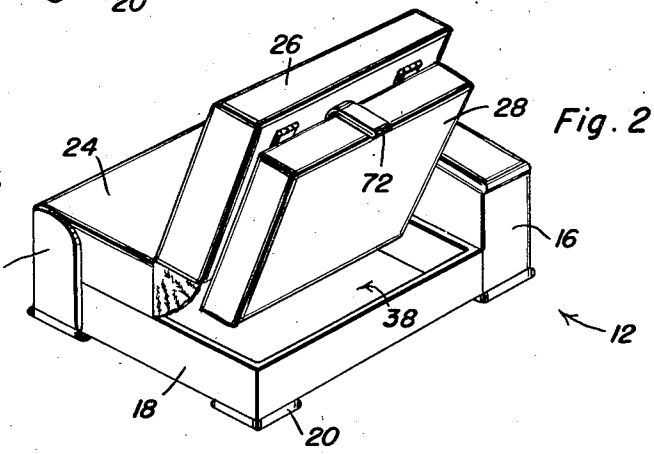
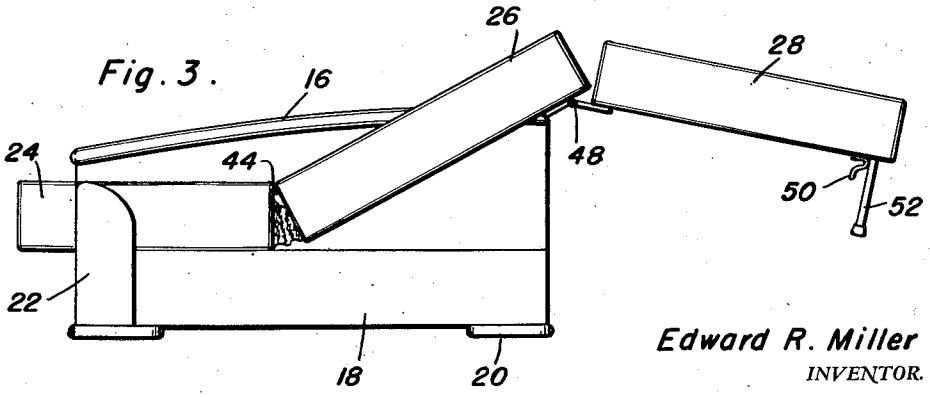


Fig. 3.



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SECTIONAL DIVAN

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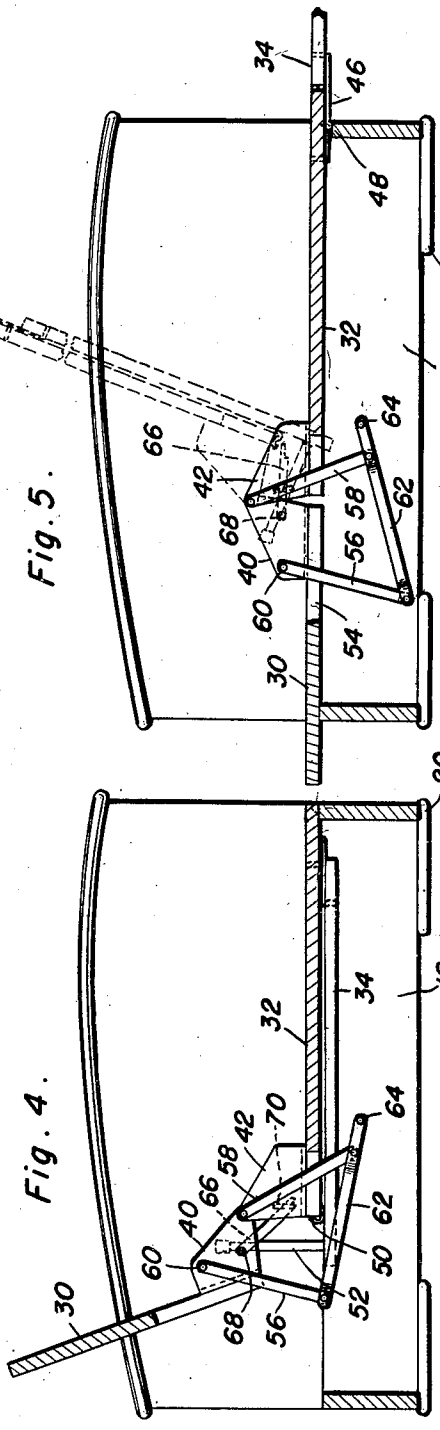


Fig. 5.

Fig. 4.

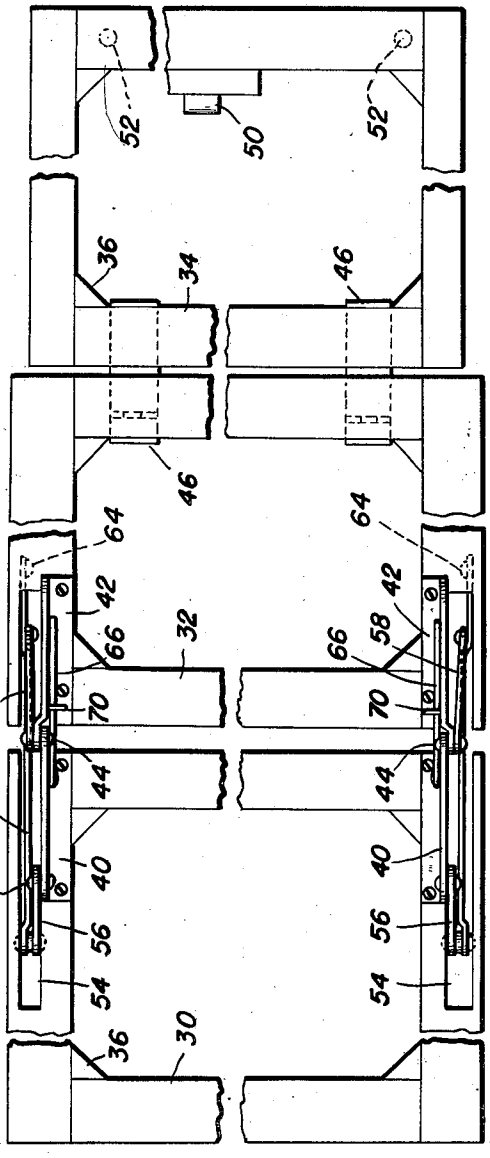


Fig. 6.

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UNITED STATES PATENT OFFICE

2,582,555

SECTIONAL DIVAN

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Application March 4, 1948, Serial No. 13,008

2 Claims. (Cl. 5—48)

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This invention relates generally to household furniture, and more particularly to a sectional divan which can be unfolded to comprise a pair of twin beds.

A primary object of this invention is to provide an article of furniture of the class mentioned above which will combine all the utilitarian features of a full size divan as well as being equally useful when divided and used in unfolded position as a pair of twin beds.

Another object of this invention is to provide a sectional divan in a form in which no uncomfortable ridges or gaps exist at the edges of the upholstered portions when the article is used either as a divan or as a bed or a pair of similar single beds.

Still another object of this invention is to provide a device of this character in which the third upholstered member, referred to herein as the extension, is completely hidden when the device is used as a divan.

Yet another object of this invention is to provide a device of this character which is extremely simple to operate, that is, to change from a divan to a bed or a pair of beds, and vice versa.

And a last object to be mentioned specifically, is to provide a device of this character which can be manufactured inexpensively, which is safe, comfortable and simple to operate even where space is limited, and which will give generally efficient and durable service.

With these objects definitely in view, this invention resides in certain novel features of construction, combination and arrangement of elements and portions as will be hereinafter described in detail in the specification, particularly pointed out in the appended claims, and illustrated in the accompanying drawings which form a material part of this application, and in which:

Figure 1 is a grouped view of this invention, a portion thereof being illustrated as a divan, and the other portion thereof being unfolded to comprise a single bed, both portions being shown in perspective;

Figure 2 is another three-dimensional view of one portion of the sectional divan showing the same in partially folded position;

Figure 3 is a side elevational view of one portion of the sectional divan, which portion may be thought of as that portion illustrated on the right hand side of the grouped view in Figure 1, the upholstered members being shown in partially unfolded position;

Figure 4 is a vertical transverse sectional view of that section illustrated on the left hand side

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of Figure 1, the upholstering of the three members being removed to facilitate the illustration of this invention and to amplify the disclosure thereof;

Figure 5 is a very similar view, showing the back and seat frame portions as disposed when the divan section is being used as a bed, the frame portion referred to as the extension being fragmentarily shown, and all three frame portions being shown in full lines as when horizontally disposed, while the frames of the seat and extension are also shown in a second position in dashed lines; and,

Figure 6 is a plan view of the frames of the back, seat and extension, certain member being broken and the figure being slightly enlarged and foreshortened.

Fig. 7 is a partial edge view of one of the hinge plates, showing the locking keeper applied thereto.

Similar characters of reference designate similar or identical parts throughout the specification and throughout the several views of the drawings.

Referring now to the drawings in detail, this invention proposes provision of a divan in two sections, indicated generally at 10 and 12. These sections are very similar and may be made complementary, that is, adapted to be both fitted together so that the upholstered arms 14 and 16 will be disposed remote from each other and the two sections placed in juxtaposition or spaced apart as desired and according to conventional usage of divided divans. Each section includes a frame of box-like character indicated at 18, ordinarily provided with foot pads 20 and small arm members 22 will be mounted on the box-like frame 18 on the sides thereof remote from the upholstered arms 14 and 16. It will be understood that the exact physical construction and configuration of the parts mentioned immediately above is a matter of mechanical expediency and individual preferment.

Each section has an upholstered back 24, a seat 26 and an extension 28, and the corresponding frame portions are indicated by the numerals 30, 32 and 34. The frame members may be of open rectangular form, braced at the corners as at 36, and sizes of the different frames may vary according to individual case, although the frame 34 will ordinarily be of a dimension measured transversely slightly less than the transverse dimension of the frame members 30 and 32, since the latter members are adapted to fit onto the top edges of the box-like frame 18 and are sup-

ported thereby both in the position shown in Figure 4 and that shown in Figure 5, while the frame 34, with its complement of upholstery, fits within the space 38 within this box-like frame.

The frame members 30 and 32 are hinged together by angle plates 40 and 42 and pins 44, while the extension 34 is connected by strap hinges 46 to the frame member 32, the hinge pins 48 being offset rearwardly of the front side of the frame 32 so that the extension 28 will be offset rearwardly when folded into the position indicated by the position of its frame member 34, in Figure 4, this feature being represented in Figure 2. A spring latch or grip 50 is secured to the underside of the frame member 34 to engage the rear portion of the frame 32 when the device is folded for use as a divan, and a pair of legs 52 are provided on the forward edge portion of the frame member 34 to support the same when the device is unfolded.

A linkage similar to that generally known as a bed hinge is provided on each side of the hinge frame members 30 and 32. A slot 54 is provided in each of the lateral members of the frame members 30 and 32, and each linkage assembly includes a pair of inflexible link members 56 and 58, pivoted as at 60 to the corresponding angle plate 40 and to the hinge pin 44, respectively. The other ends of these links are pivoted to a common bar 62, which may, in one preferred embodiment of this invention, be pivoted as at 64 to the side members of the box-like frame 18. A latch bar 66 is pivoted as at 68 on the upright flange of the angle plate 40, while the upright flange of the angle plate 42 carries a U-shaped latch member 70, the free end of the latch member 66 being at all times extended through the latch member 70, and the latch bar 66 having a hook portion adapted to engage on one end portion of the latch member 70 when the back 24 and seat 26 are disposed as illustrated on the left hand side of Figure 1 and in Figure 2, and when the frame members 30 and 32 are disposed as indicated in Figure 4, the elements being all substantially according to conventional practice in furniture of the same general type as this invention, although the linkage as an assembly has been modified both as to structure and arrangement for the particular requirements of this improved sectional divan.

The operation of this invention will be clearly understood from the foregoing description of the mechanical details thereof, taken in connection with the drawings and the above recitation of the objects sought to be achieved by this invention. In recapitulation, it need only be pointed out that the small arm members 22 function as guides for the back 24 of each section of the divan, and in changing the device from a divan to a single bed, the seat 26 and extension 28 are first raised into a position illustrated in Figure 2 and also indicated in dash lines in Figure 5, manipulation of the portions of the device being facilitated by the provision of a hand pull 72, indicated in Figure 2. The latch bar 66 is then released from the latch member 70 by a quick movement of the seat 26 relative to the back 24 and a quick reverse movement, and with the seat and back depressed in their horizontal positions,

the extension is allowed to contact the floor by means of its legs 52, in order to comprise a single bed. The action of the links 56 and 58 and the crossbar 62 in allowing longitudinal shifting of the hinged back, seat and extension, relative to the frame 18, will be clear from an examination of the figures. In folding the device, the above mentioned steps are reversed and the extension 28 is finally swung into the space 38 in the box-like frame 18, the locking bar 66 engaged with the locking member 70 connecting the back and seat which pivot as a unit about the pins 44 into the position indicated in Figure 1 on the left hand side of the figure.

Obviously many minor variations may be made in the details of construction and the proportionment of the various elements in this invention without departure from the spirit and scope thereof. Accordingly, limitation of this invention should be only in accordance to a proper interpretation of the terminology used in the subjoined claims.

Having described the invention, what is claimed as new is:

1. An article of furniture comprising a frame, a cushioned seat member and a cushioned back member hingedly connected together, a supporting and connecting linkage for said members including a bar pivoted to a central portion of one end of said frame, hinge plates secured to said seat member and back member and connected by a hinge pin, latch means for said plates and two links having one pair of ends pivoted in spaced relation on said bar and the other end of one bar being pivoted on said hinge pin and the other end of the other bar being pivoted on the plate secured to the back member.

2. A convertible article of furniture comprising a box-like frame, a cushioned seat member and a cushioned back member, a bar pivoted at one end to a central portion of one end of said frame, plates secured to the inner adjacent edges of said members and connected by a hinge pin, a latch bar pivotally carried by one of said plates and a complementary fixed latch member carried by the other plate, said latch bar being locked in said latch member to support the seat and back member in substantially right angular relationship, connecting links terminally pivoted in spaced relation on the bar, the other ends of the links being respectively pivoted on the hinge pin and on the plate secured to the back member.

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