July 29, 1958 G. STARK 2,844,828

CONVERTIBLE BED

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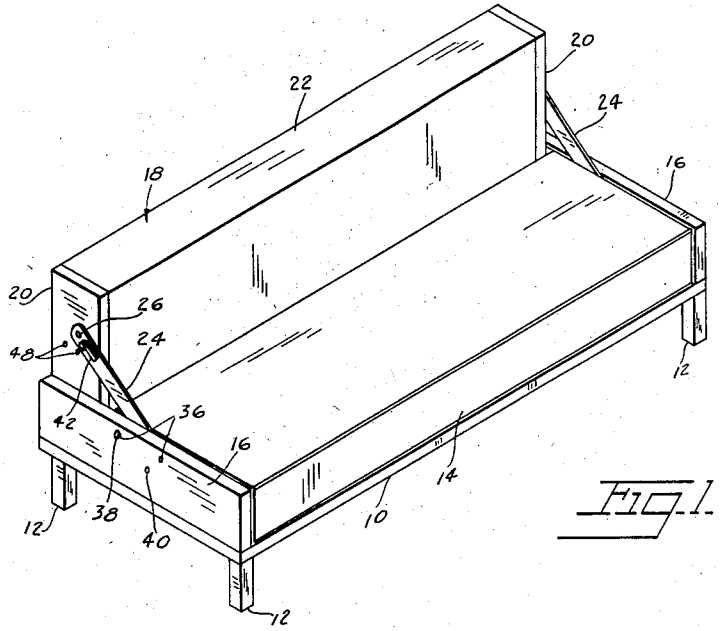


FIG. 1.

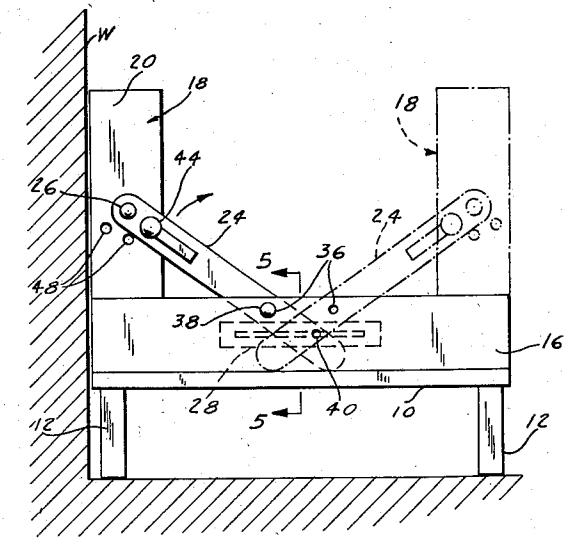


FIG. 2.

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Fig. 7

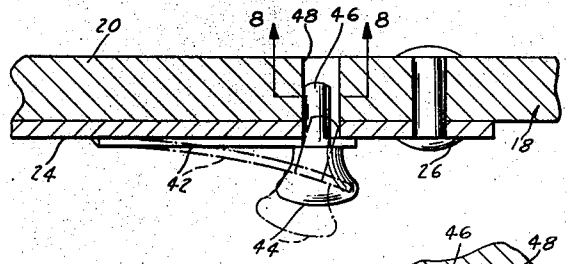
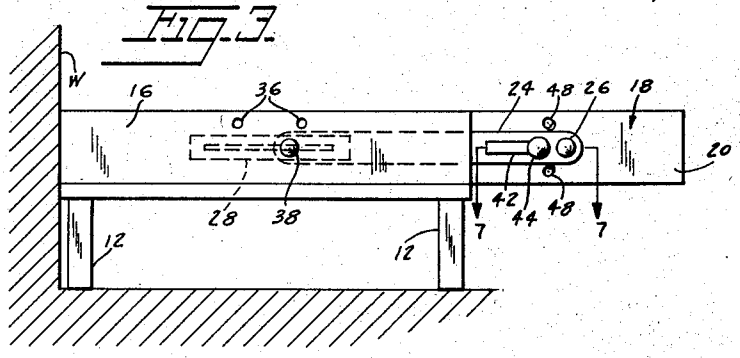


Fig. 3



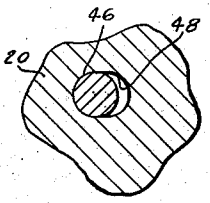


Fig. 8

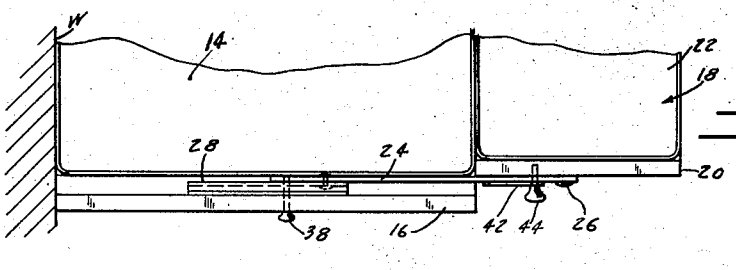


Fig. 4

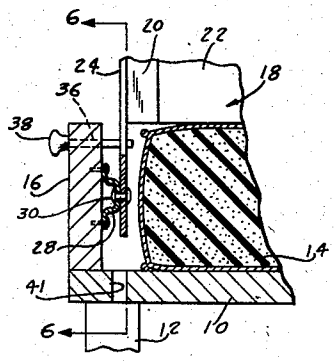


Fig. 5

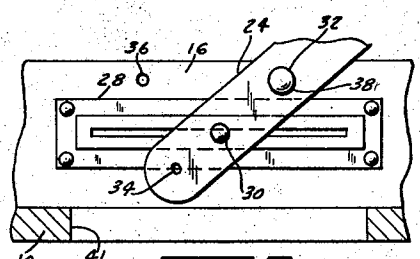


Fig. 6

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United States Patent Office 2,844,828 Patented July 29, 1958

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CONVERTIBLE BED

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Application March 19, 1956, Serial No. 572,245

1 Claim. (Cl. 5—45)

This invention relates to sofas and, more particularly, to a sofa or couch readily convertible into a bed and further adapted for adjustment of the backrest thereof into a position in which it will serve as a guardrail when, for example, the bed is being used for sleeping purposes by a small child.

Among important objects of the invention are the following:

First to provide a convertible sofa so designed that conversion thereof for any desired purpose may be effected speedily and easily;

Second, to effect locking of the relatively movable parts in each position of adjustment;

Third, to produce a simplified structure that can be manufactured at low cost;

Fourth, to provide an attractive sofa the convertibility of which will not be overly obvious; and

Fifth, to insure to the maximum extent the relative stability of the sofa in each position of adjustment thereof.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claim in which the various novel features of the invention are more particularly set forth.

In the accompanying drawings forming a material part of this disclosure:

Fig. 1 is a perspective view of a sofa formed according to the invention.

Fig. 2 is an end elevation in which the dotted lines show the backrest adjusted to serve as a guardrail.

Fig. 3 is a view like Fig. 2 in which the backrest has been adjusted to provide a wide bed.

Fig. 4 is a fragmentary top plan view in which the backrest is in its Fig. 3 position.

Fig. 5 is an enlarged section on line 5—5 of Fig. 2.

Fig. 6 is an enlarged section on line 6—6 of Fig. 5.

Fig. 7 is a detail sectional view, still further enlarged, on line 7—7 of Fig. 3, the detent being shown in inoperative position in dot-dash lines.

Fig. 8 is a detail sectional view, the scale being still further enlarged, on line 8—8 of Fig. 7.

The sofa includes a main frame **10**, which may as shown be in the form of a flat, rectangular, horizontal plate having corner legs **12** and supporting an upholstered cushion **14** overlying substantially the full area of, but terminating a short distance inwardly from the ends of, said plate.

Rigid with and projecting upwardly from the ends of the frame plate are transverse end walls **16** extending in vertical planes fully from the front to the back of the sofa, and swingably mounted on the end walls is a backrest **18** substantially coextensive in length with the main frame and including end plates **20** between which is extended an upholstered, suitably framed backrest cushion **22**.

Swinging arms **24**, pivotally connected at one end at **26** to end plates **20**, have a horizontally sliding pivotal connection at their other ends to the inner surfaces of

the end walls **16**. This is effected by means of horizontally extending plate-like brackets **28** secured to end walls **16** and having longitudinal, closed slots into which extend pins **30** passing through the arms **24**.

Arms **24** are lockable in each of the oppositely inclined positions shown in full and dotted lines in Fig. 2 and in the horizontal position shown in Fig. 3. To this end each arm has apertures **32**, **34** aligned longitudinally and centrally thereof with the pin **30** at opposite sides of the pin. The end walls have horizontally aligned openings **36** adjacent their top edges. Opening **32** registers with one opening **36** in the full line, inclined arm position shown in Fig. 2, and with the other opening **36** in the dotted line, inclined arm position shown in this figure. With opening **32** so registered with a selected opening **36**, a pin **38** is removably inserted through the registered openings to lock the arm in its selected, adjusted position.

When arm **24** is disposed horizontally, opening **34** is registered with the slot of bracket **28** and pin **38** is extended through the registered slot and opening to lock the arm. The end wall **16** has an opening **40** aligned with the slot to permit insertion of the lock pin under these circumstances.

To insure clearance for swinging the arm, the base plate of frame **10** may have elongated slots **41** in the planes of swinging movement of the arms.

The backrest pivots freely on the pins **26** during adjustments of the backrest to different positions thereof and is lockable in each position to which it is so adjusted. To this end, a detent **42** on each arm includes a leaf spring anchored thereto. Secured to the free end of the spring is a knob **44** and a pin **46** engageable in any of three openings **48** of the arm. The openings are arranged in an arcuate series about pivot pin **26**. Thus, when the backrest is in its full line, Fig. 2 position to serve as a back cushion for a sofa, pin **46** is in one opening **48**. When the backrest is adjusted to serve as a guardrail, pin **46** is in the opening **48** at the other end of the series. Then, when the backrest is horizontally positioned to extend the width of the bed, pin **46** is engaged in the middle opening **48**.

Adjustments of the backrest are effected speedily and easily, and locking of all relatively movable parts in each position of adjustment is effected with equal facility. The arms swing easily about their respective pivots and further, may slide toward the front of the structure whenever the cushion is to be positioned horizontally along said front of the furniture piece as in Figs. 3 and 4.

When the backrest is to be used as a guardrail as shown in dotted lines in Fig. 2 to prevent a child from falling out of bed, it cooperates with a room wall W in protectively walling the opposite sides of the main cushion **14**.

It is to be understood that the use of the end plate **20**, as an extension, may be eliminated, if desired.

While I have illustrated and described the preferred embodiment of my invention, it is to be understood that I do not limit myself to the precise construction herein disclosed and that various changes and modifications may be made within the scope of the invention as defined in the appended claim.

Having thus described my invention, what I claim as new, and desire to secure by United States Letters Patent is:

A convertible sofa comprising a cushioned main frame, arms pivotally connected at one end to the main frame, at approximately its longitudinal center, a cushioned backrest carried by said arms, said arms being movable to selected positions, the backrest in a first position being disposed vertically along one longitudinal edge of the frame to serve as a back cushion, in a second position

being disposed vertically along the opposite longitudinal edge to serve as a guardrail, and in a third position being disposed horizontally beyond one of said edges to extend the main frame in a transverse direction for providing a wide bed, means to lock the arms and backrest against relative movement in selected positions to which the arms are swung, and means to lock the arms against movement relative to the main frame in said selected position of the arms, said arms pivoting on the main frame about an axis extending longitudinally of the main frame, and swinging in vertical planes at opposite ends of the main frame, the backrest extending between the arms and being connected at its ends to the arms, for swinging movement about an axis paralleling that of the arms, said first-named means including spring-loaded detents on the arms, said backrest having openings each

registrable with a detent in a selected position of adjustment, said second means comprising a pin insertable through the main frame, the arms having openings registrable with the pin in each position to which the arms are swung.

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