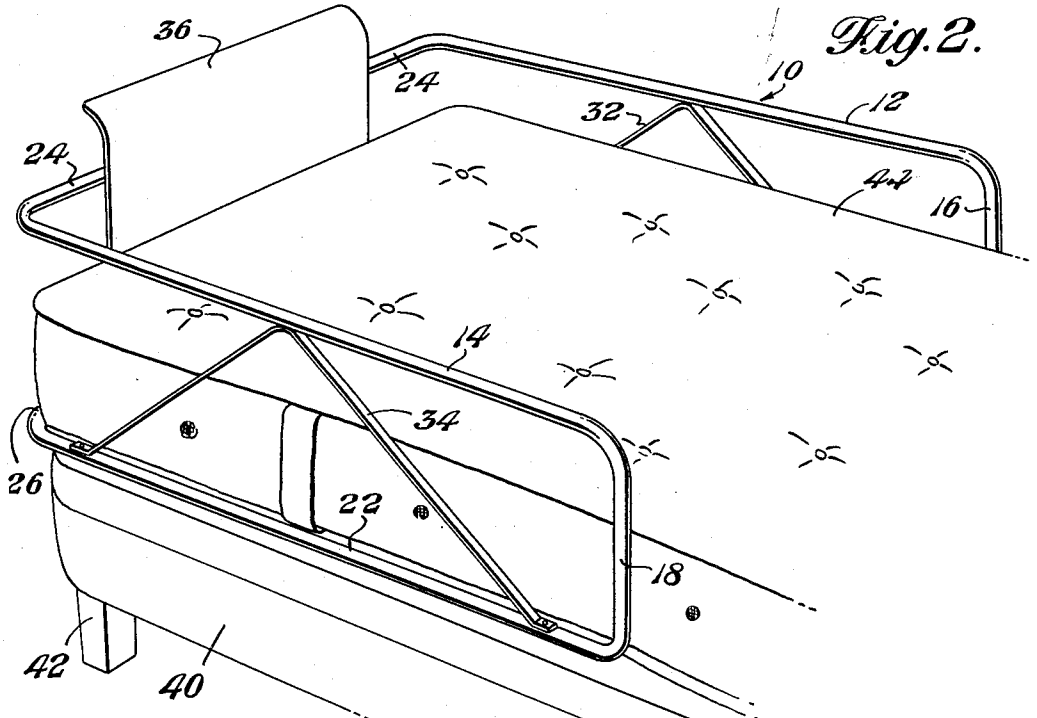
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BED ATTACHMENT

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Fig. 2.



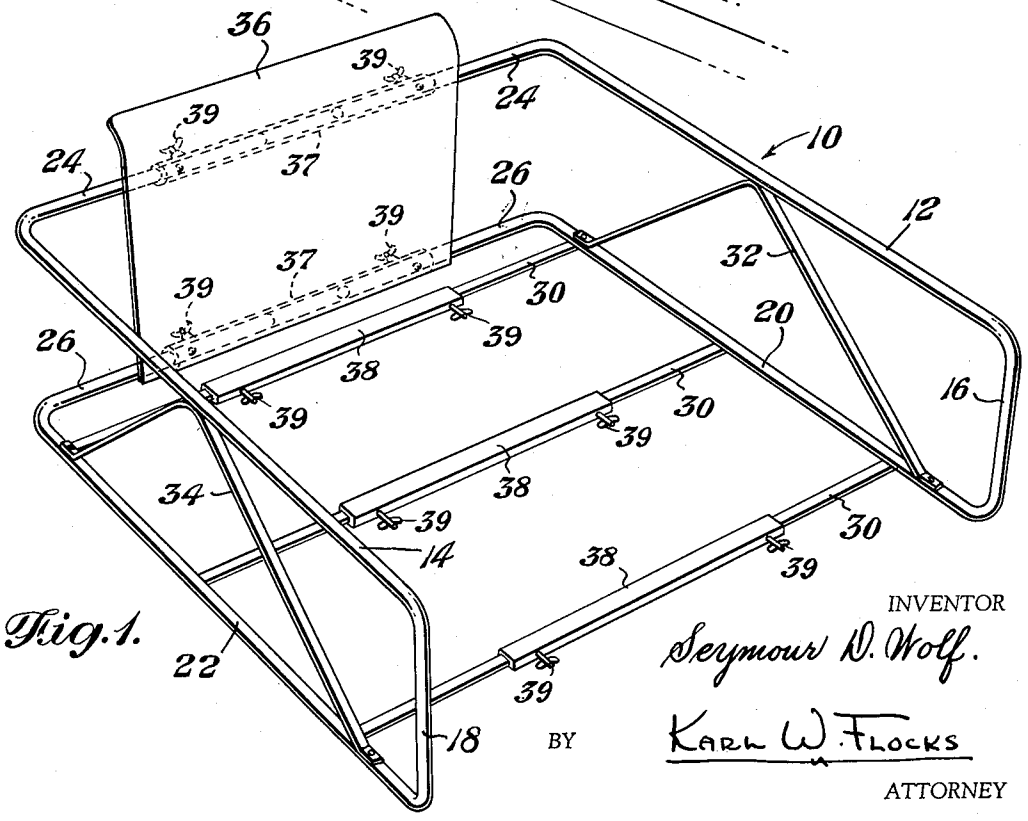


Fig. 1.

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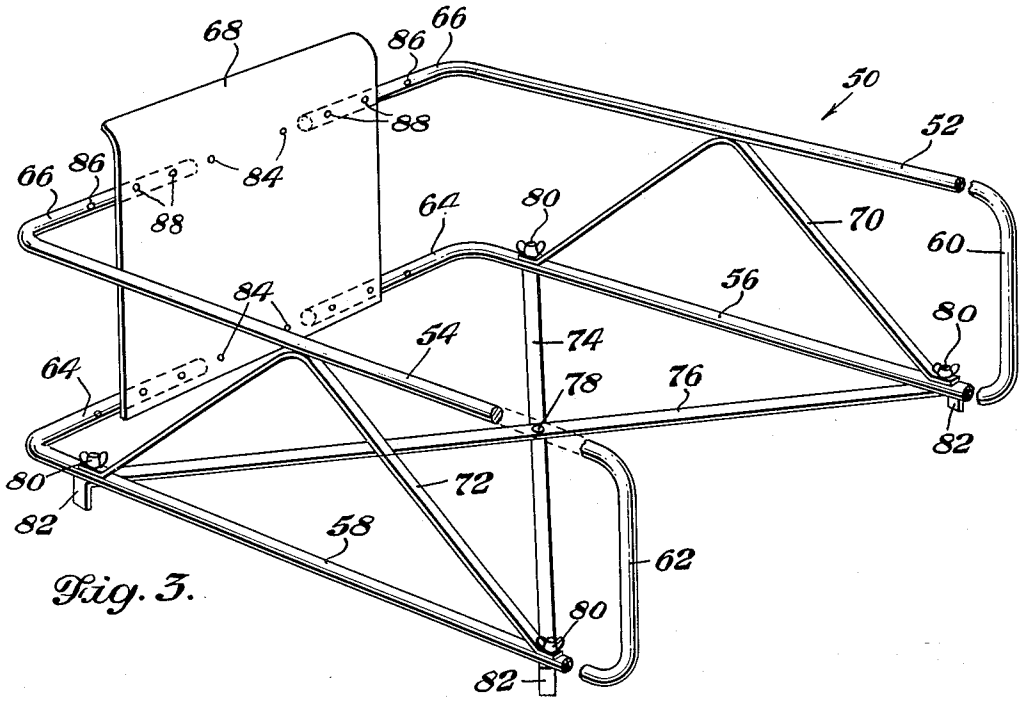


Fig. 3.

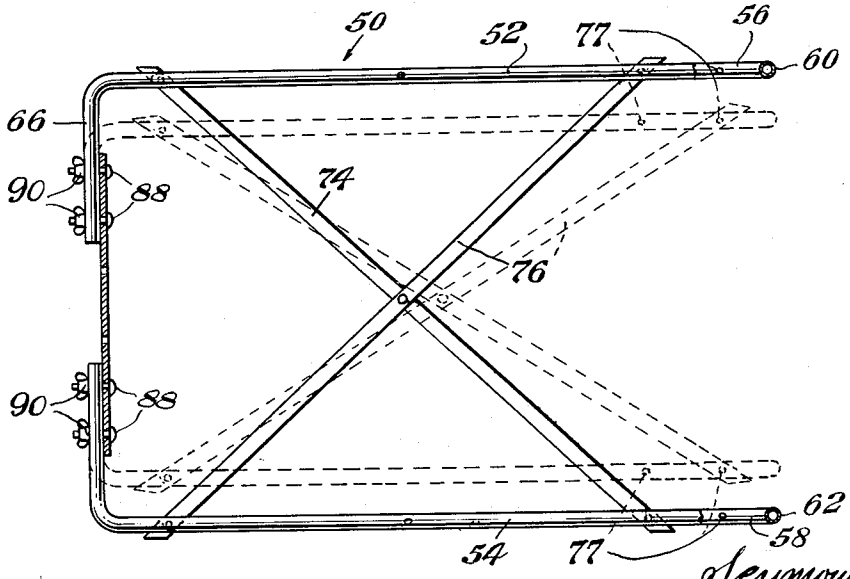


Fig. 4.

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United States Patent Office 2,722,693 Patented Nov. 8, 1955

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BED ATTACHMENT

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Application July 11, 1952, Serial No. 298,276

13 Claims. (Cl. 5—331)

This invention relates to bed attachments. More particularly, this invention relates to a safety attachment for use with beds whereby the occupant thereof will be prevented from rolling or falling out.

Oftentimes it is desirable to have children sleep in beds ordinarily used by adults. Heretofore, this practice has not been practicable since readily installable guard means for preventing a child from rolling or falling out of the bed have not been available. Prior to the instant invention, attempts have been made to fabricate bed guards for use for children but none of these heretofore known devices has solved the problem with any success. Generally, the heretofore known devices were applicable only with certain type beds or required special fittings that were difficult to attach, thereby rendering the devices undesirable for general purposes.

It is one of the objects of the present invention to provide a bed guard that is readily adaptable for use with any type bed.

Another object of the present invention is to provide a bed guard of simple construction that is easily attached to any type bed.

Still another object of the present invention is to provide a bed guard that can be adjustable to any size bed.

Other objects and the nature and advantages of the instant invention will be apparent from the following description taken in conjunction with the accompanying drawings, wherein:

Fig. 1 is a perspective view of the frame construction embodied in the present invention;

Fig. 2 is a perspective view of the frame shown in Fig. 1 in assembled position on a bed;

Fig. 3 is a perspective view of a modified form of the frame embodied in the present invention; and

Fig. 4 is a plan view partly in section of the frame illustrated in Fig. 3.

Referring to the drawings and particularly Fig. 1, the present invention is shown comprising a three-sided frame generally indicated at **10**. The frame **10**, as shown and described hereinafter, is preferably fabricated from a lightweight metal. However, it is understood that other materials such as wood or plastic are contemplated in carrying out the spirit of the invention.

The three-sided frame **10**, which is generally tubular in construction, includes horizontally disposed upper side rails **12** and **14**. The upper side rails **12** and **14** extend parallel to one another and are integrally joined by vertically extending end rails **16** and **18**, respectively. Located below the upper side rails **12**, **14** in spaced relation thereto and joined integral with end rails **16**, **18** are horizontally extending lower side rails **20** and **22**. The upper and lower side rails constitute two sides of the three-sided frame and the third side is completed by a horizontally extending upper head rail **24** integrally jointed to the upper side rails **12**, **14** and a horizontally extending lower head rail **26** integrally joined to the lower side rails **20**, **22**.

Suitably secured to the under side of the lower side rails **20**, **22** at spaced intervals are cross bars **30**. The cross bars **30** are not only adapted to structurally support the frame **10**, but are also utilized to firmly hold the frame in assembled position on a bed, as shown in Fig. 2.

Additional guard means are required between the side rails to prevent any possible escape therethrough by a child when the frame is in position on a bed. Consequently, side members **32** and **34**, which are formed in inverted V's are secured to the upper and lower side rails, as shown particularly in Fig. 1. The frame construction is completed by a head board **36** which is suitably attached to the head rails **24**, **26**.

The frame **10** has been described hereinabove as having integral rails and, is adaptable to only a particular width bed. It is conceivable that on occasion it would be desirable to employ the frame on a bed having a width different from the bed for which the frame was originally intended for use. Consequently, it is apparent that on such occasions the frame must be adjustable to meet the new size requirements. Referring again to Fig. 1, the frame **10** is shown constructed in two identical halves. Positioned between the head rails **24**, **26** of each frame half and in telescoping relation therewith, are tubes **37**. Similarly, hollow insert bars **38** are positioned between the cross bars **30** and are adapted to slidably receive the cross bars **30** therein. Set screws **39** are suitably positioned in the tubes **37** and hollow insert bars **38** and are adapted to secure the head rails **24**, **26** and cross bars **30** in the adjusted position. In order to adjust the frame to the desired width, it is only necessary to loosen the set screws **39** and slidably move the half frames to the new position. After tightening the set screws **39**, the adjusted frame **10** is then ready for assembly on the bed. It is apparent that this construction will enable the half frames to be fabricated identically, thereby reducing manufacturing difficulties and, moreover, will enable the desired adjustment to be made simply and quickly. When the adjustable frame is used, the headboard **36** is secured directly to the tubes **37** and thus will be in proper position for any adjustment made. Of course, if it is desired, a larger or smaller headboard can be attached to the head rails, as required by the bed width.

Referring now to Fig. 2, the bed guard is shown in assembled position on a bed. The bed ilustrated in Fig. 2 is of the hollywood type and comprises a box spring **40** which includes legs or supporting members of which a leg **42** is an example. A mattress **44** covers the top of the box spring **40** in the conventional manner. The frame **10** is assembled on the bed by lifting the mattress **44** and slidably inserting the cross members **30** between box spring **40** and mattress **44**. The lower side rails **20**, **22** and lower head rail **26** in the assembled position surround the box spring **40** at the end and along a portion of the sides thereof. The upper side rails **12**, **14** and upper head rail **24** in the assembled position project above the mattress **44** in spaced relation to the lower rails and define thereby the guard rails. The headboard **36**, which is attached to the head rails **24**, **26**, abuts against the head end of the mattress and projects thereabove, thereby preventing any possible headlong movement of an occupant of the bed, and providing an attractive arrangement. The headboard **36**, which acts as an upper guard is also utilized as a pillow support and can be constructed of various materials. It is apparent that the headboard **36** may be decorated with a design, upholstered or made in any shape or design that is desired.

Referring now to Figs. 3 and 4, a modification of the present invention is shown and includes an adjustable frame generally indicated at **50**. The adjustable frame **50** is constructed in two identical halves in a manner similar to the frame **10**, illustrated in Figs. 1 and 2, and comprises

horizontally disposed upper side rails 52, 54, lower side rails 56, 58, and vertically extending end rails 60, 62. Head rails 64, 66 are integrally formed with the side rails and are adapted to receive a headboard 68 thereon. Side members 70, 72 are suitably secured to the upper and lower side rails and provide additional guard means between the side rails. Secured to the lower side rails 56, 58 are cross bars 74 and 76 which are connected together for pivotal movement at the pivot point 78. The lower side rails 56, 58 have formed therein adjustment openings 77 which are adapted to be aligned with an opening formed on the end of the cross bars 74, 76. Fastening means 80 are provided for securing the cross bars 74, 76 to the lower side rails 56, 58 and are received by the adjustment openings 77 formed in the lower side rails. Referring to Fig. 4, two openings 77 are shown formed in each side rail, but it is understood that any number can be provided thereby providing for a variety of adjustable positions of the half frames. Integrally connected to each end of the cross bars 74, 76 and formed at right angles thereto are short extensions 82. The extensions 82 are adapted to abut against the sides of the mattress 44 that the frame 50 engages and thereby holds the frame in a more secure position on the mattress. In order to secure the headboard 68 to the head rails 64, 66, spaced openings 84 are formed therein and are adapted to be aligned with equally spaced openings 86 formed in the head rails 64, 66. Suitable fastening bolts 88 are inserted through the openings 84 and 86 and are secured therein by wing nuts 90 as shown in Fig. 4.

When it is necessary to insert the frame 50 on a bed which is more narrow than the full width of the frame 50, the fastening means 80 securing the cross bars 74, 76 in place under the side rails 56, 58 are removed therefrom. The headboard 68 is then removed from engagement with the head rails 64, 66 by removing the bolts 88, and the two half frames are pushed together. As the half frames move together, the cross bars 74, 76 pivot at the pivot point 78 and close in a scissor like action. When the desired adjusted position of the bed frame 50 is obtained, the fastening means 80 are inserted into the openings 77, thereby securing the cross bars 74, 76 to the lower side rails 56, 58 in the adjusted position. The bolts 88 are inserted into the openings 84 and 86 corresponding to the adjusted position of the frame, which then secures the headboard 68 to the head rails 64, 66 in the new position. It is apparent that convenient adjustment of the frame 50 may be made quickly and efficiently by merely adjusting the half frames to the desired width bed and then adjusting the headboard 68 on the head rails 64, 66.

Referring again to Fig. 2, it is apparent that the frame 10 provides a bed guard that is simple to assemble and effective in its purpose of preventing a sleeping child from rolling or falling out of the bed. The frame is securely held in position by the weight of the mattress and the child occupying the bed, which is sufficient to keep the cross bars in place between the box spring and mattress. As shown in Fig. 2, the frame is assembled in position with a hollywood type bed, but it is obvious that the frame could be adapted for use with any type bed. If it is desirable to employ the frame with a different width bed, adjustment can be made as discussed hereinabove.

It is apparent from the above description that a bed attachment is provided that is quickly and easily assembled with a bed as the situation demands. No special mechanical skills are necessary in carrying out the assembly, which enables even the most unmechanically minded to perform the operation. Moreover, the bed attachment can be utilized with any type bed and can be adapted for speedy use in those cases where a baby crib is unavailable.

It will be obvious to those skilled in the art that various changes may be made without departing from the spirit of the invention and therefore the invention is not limited to what is shown in the drawings and described in the specification, but only as indicated in the appended claims.

What is claimed is:

1. In an attachment for a bed, two identical half frames, said half frames including upper and lower side rails, head rails integrally joined to said side rails, cross bars secured to said lower side rails, and a hollow adjusting bar operatively connecting said cross bars, thereby providing for adjustment of said half frames, said cross bars being positioned under the mattress of said bed and the entire length of said upper side rails projecting substantially above said mattress.

2. In an attachment for a bed as set forth in claim 1, wherein a headboard is adjustably mounted on said head rails.

3. In an attachment for a bed, two identical half frames, said half frames including upper and lower side rails, head rails integrally joined to said side rails, cross bars secured to said lower side rails, said cross bars being pivotally connected to each other, thereby providing for adjustment of said half frames.

4. In an attachment for a bed as set forth in claim 3 wherein a headboard is adjustably mounted on said head rails.

5. In an attachment for a bed, a frame comprising a pair of horizontally disposed upper side rails, a pair of horizontally disposed lower side rails, each of said lower side rails being spaced from an upper side rail and disposed in a common plane therewith, horizontally disposed upper and lower head rails connected to said upper and lower side rails and positioned in a plane perpendicular to said side rails, side members secured to said upper and lower side rails, said side members being disposed in the plane including said upper and lower side rails, a head board secured to said upper and lower head rails and extending substantially across the width of said frame, and a plurality of horizontally disposed cross bars secured to said lower side rails, said cross bars being positioned under the mattress of said bed to firmly hold said frame on said bed, the entire length of said horizontal upper side rails, side members, upper head rail and head board projecting above said mattress when said frame is positioned on said bed, thereby providing a three-sided guard for said bed.

6. In an attachment for a bed as set forth in claim 5, wherein said cross bars are provided with telescopic connections to allow for adjustment of said frame for different size beds.

7. In an attachment for a bed as set forth in claim 6, wherein said cross bars are pivotally connected to provide for a scissor-like movement, thereby allowing for adjustment of said frame for different size beds.

8. In an attachment for a bed, a three-sided frame comprising a pair of parallel upper side rails, a pair of parallel lower side rails, each of which is spaced from an upper side rail, an upper head rail connected to said upper side rails and positioned perpendicular thereto, a lower head rail connected to said lower side rails and positioned perpendicular thereto, side members secured to said upper and lower side rails and positioned therebetween to define side guards, a head rail means secured to said upper and lower head rails to provide a head guard, and cross bars extending across the width of said frame and secured to said lower side rails, said cross bars being positioned under the mattress of said bed to firmly hold said frame on said bed, the entire length of said upper side rails, side members upper head rail and head rail means projecting above said mattress when said frame is positioned on said bed to provide a three-sided guard for said bed.

9. In an attachment for a bed as set forth in claim 8, wherein said cross bars are provided with telescopic connections to allow for adjustment of said frame for different size beds.

10. In an attachment for a bed as set forth in claim 8, wherein said cross bars are pivotally connected to provide

for a scissor-like movement, thereby allowing for adjustment of said frame for different size beds.

11. In an attachment for a bed, a three-sided frame comprising a pair of upper side rails disposed in spaced relation to one another and in the same plane, a pair of parallel lower side rails each of which is spaced vertically from an upper side rail, side members secured to said upper and lower side rails to define side guards, head rails secured to said side rails, head rail guard means secured to said head rails, and cross bars extending across the width of said frame and secured to said lower side rails, said cross bars being positioned under the mattress of said bed to firmly hold said frame on said bed, the entire length of said upper side rails, side members and head rail guard means projecting above said mattress when said frame is positioned on said bed to provide a three-sided guard for said bed.

12. In an attatchment for a bed, a frame comprising a first side guard means, a second side guard means spaced from said first side guard means and positioned parallel thereto, a head guard means connected to said first and second side guard means, means connecting the lower end of said first side guard means to the lower end of said

second side guard means, said connecting means being disposed in a horizontal plane and being positioned under the mattress of said bed when said frame is located thereon to firmly hold said frame on said bed, the entire length of said first and second side guard means and said head guard means projecting substantially above said mattress when said frame is positioned on said bed to form a three-sided guard for said bed.

13. In an attachment for a bed as set forth in claim 12, wherein said head guard means and said connecting means are adjustable, thereby providing for adjustment of said side guard means and enabling said frame to be adapted for use with any size bed.

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