Oct. 21, 1947. E. E. MERRETT ET AL 2,429,421

CRIB CONSTRUCTION

Filed Sept. 21, 1945

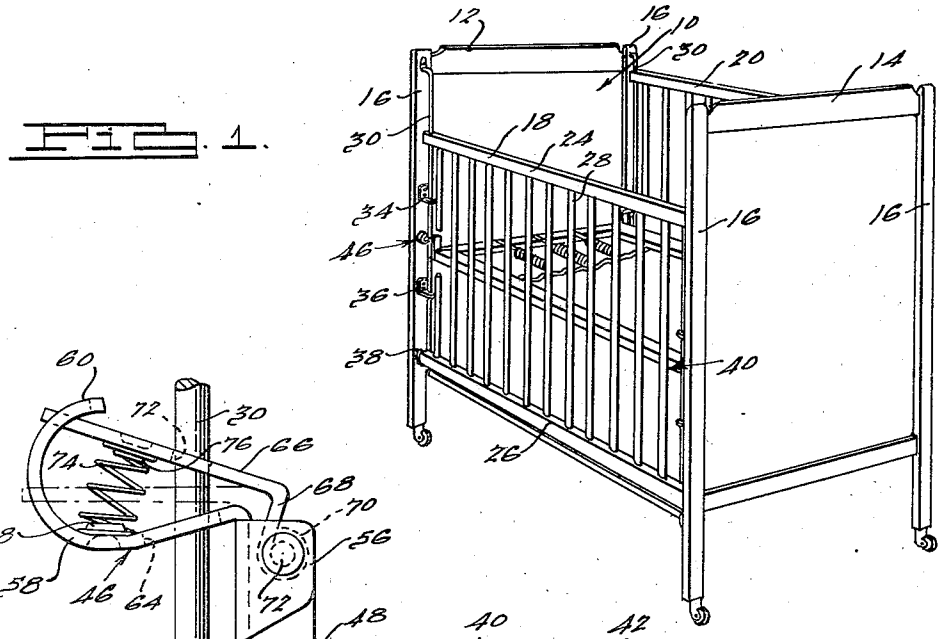


FIG. 1.

FIG. 2.

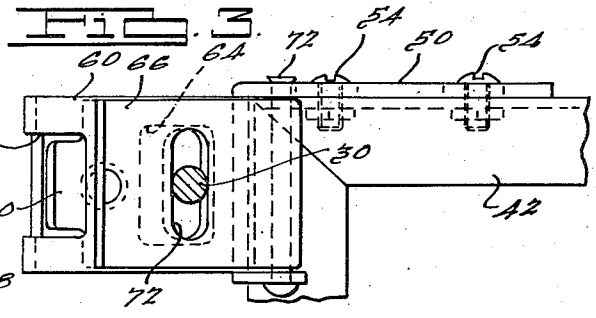


FIG. 3.

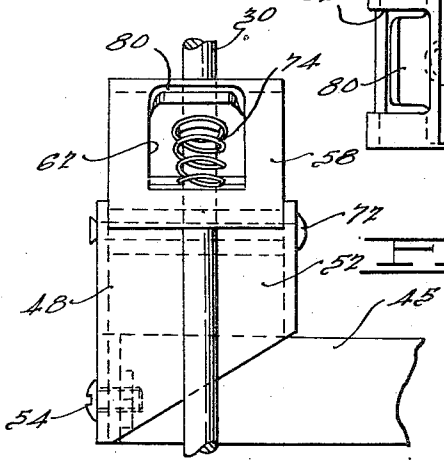


FIG. 4.

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CRIB CONSTRUCTION

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Application September 21, 1945, Serial No. 617,778

1 Claim. (Cl. 5—11)

1

The present invention relates to children's furniture and particularly relates to improvements in children's beds or infants' cribs.

One of the primary objects of the present invention is to provide improvements in the support for the spring mattress support whereby such mattress support may be mounted in any one of a plurality of vertical positions, with respect to the ends and sides of the bed, in a simplified manner.

Another object of the invention is to provide improvements in the means for mounting the spring support to the bed of such a construction and arrangement that the support is positively held in any one of a plurality of vertical positions and can not be accidently or or inadvertently released from that position.

Other objects of the invention will become apparent from the following specification, the drawing relating thereto and from the claim hereinafter set forth.

In the drawing, in which like numerals are used to designate like parts in the several views throughout;

Figure 1 is a perspective view of a child's bed or crib embodying features of the present invention;

Fig. 2 is an enlarged elevational view showing a portion of one corner of the mattress support and showing the means for releasably attaching such corner to one of the vertical crib rods;

Fig. 3 is a top plan view of the structure shown in Figure 2; and,

Fig. 4 is an end elevational view of the structure shown in Fig. 2 taken from the left end thereof.

An embodiment of the present invention is illustrated in which a child's bed or crib is generally indicated at 10. Such crib 10 includes upstanding end members 12 and 14, each of which has vertical corner posts 16 which provide floor-engaging legs. Drop sides generally indicated at 18 and 20 are disposed between the end members 12 and 14 and are connected thereto for up and down movement.

The sides 18 and 20 are identical to each other and are each connected to the adjacent corner of the end members in the same way. Thus, a detailed description of the manner in which one is connected will be sufficient for an understanding of the manner in which both are connected.

The side 18 includes upper and lower substantially parallel rails 24 and 26, respectively, interconnected by vertical bars 28, which are spaced therealong.

2

In order to mount the sides for up and down movement relative to the ends 12 and 14, slide posts 30 in the form of rods are fixed to the end members 12 and 14 at each corner thereof. The rods are bent at right angles adjacent the upper ends thereof and are then bent upwardly, with screw eyes provided through the upwardly bent portions, so that the upper ends thereof are screwed to the corner posts 16 of the end members adjacent the upper ends thereof. The major portion of each rod 30 extends parallel to its adjacent post 16 in parallel, spaced relation thereto and is rigidly supported by passing through openings in horizontal portions of vertically spaced brackets 34, 36 and 38. The brackets 34, 36 and 38 are screwed to the inner faces of post 16.

Means are provided for latching each side to the end members in its up and down positions and the preferred means for so latching the sides is that disclosed and claimed in the copending application of Guido F. Berger, Serial No. 617,357, September 19, 1945.

A bed spring or mattress support generally indicated at 40 is disposed within the confines of the end and side members; and, according to the present invention, is releasably connected to each of the rods 30 so that it may be adjustably fixed therealong. The mattress support 40 is rectangular in form and is formed by end angle members 42 joined together by side angle members 44. Suitable springs are fixed to the end and side members 42 and 44 to provide a spring support for the mattress.

A mattress support 40 is provided with a friction latch generally indicated at 46 at each corner thereof. Each latch projects laterally of the spring support and is so constructed as to frictionally and releasably engage its adjacent rod 30. Each latch 46 comprises a body member 48 which is bent at a right angle to provide one side 50 which extends along the end rail 42 at the corner thereof and another side 52 which extends around the corner and along the side rail 44 at the corner. The member 48 is fixed to the frame by bolts which pass through aligned openings in side 50 and the vertical flange of the end member 42, as indicated at 54. Thus, the member 48 is rigidly connected to the mattress support. The member 48 also includes an upstanding portion 56 which has opposite, inturned side walls forming a U-shaped section. A rigid curved member 58 is formed integral with the member 48 and extends laterally of the mattress support 40. Such member 58 is curved upwardly and inwardly as indicated at 60 and is formed with an opening

62 through the outer face thereof. The member 58 is also formed with an opening 64 therethrough through which adjacent rod 30 passes. A rigid latching member 66 has the inner end 68 thereof bent at an angle to the main portion thereof and then shaped into the form of an eye as indicated at 70. A pivot rod 72 is passed through aligned openings in the parallel walls of upstanding portion 56 and passes through the pivot eye 70 so as to pivotally mount the member 66. The member 66 also has an opening 72 therethrough through which the rod 30 passes.

A coil spring 74 is disposed between members 66 and 58 with the ends thereof engaging and fixed by facing bosses 76 and 78 formed on the member 66 and 58, respectively. The member 66 is thus constantly urged by the spring 74 to turn about its pivot 72 in a clockwise direction, view in Fig. 2, so that the side walls of the opening 72 are urged into frictional engagement with the rod 30. The outer end of member 66 is shaped in the form of a tab 80 and passes through the opening 62. By depressing the tab 80, the latching member 66 is released from frictional engagement with the rod 30, and by then raising or lowering the member 58, that particular corner of the mattress support is correspondingly raised or lowered. When the tab 80 is released, the latching members 66 immediately re-engage the rod 30 to hold the mattress support in that particular position.

Each corner of the spring support 40 has a corresponding latch 46 mounted thereon and connected to the adjacent rod 30 in the same way so that each corner may be adjustably positioned. Thus, the mattress support may be raised in its entirety to an upper position so that the infant is disposed at a comfortable height, particularly when it is young. Also, one end of the mattress support may be disposed at a lower level than the other, which is desirable in certain circumstances.

The upper curved end 60 provides sufficient protection for the member 66 and the tab 80 so that the latch cannot be accidently or inadvertently released particularly by an infant within the crib.

Formal changes may be made in the specific embodiment of the invention disclosed without departing from the spirit and substance of the invention, the scope of which is commensurate with the appended claim.

What is claimed is:

In a bed, a pair of end members, rod members mounted on each of said end members at opposite sides thereof and spaced therefrom, a pair of side members connecting said end members, a mattress support, and means selectively connecting said mattress support to said rod members at selected positions therealong, said last-named means including outwardly projecting friction latches attached to each corner of said mattress support and embracing said rod members in frictional engagement therewith, each of said latches including a rigid member pivoted to its adjacent corner and having an opening therein through which its adjacent rod passes, another rigid member rigidly connected to said adjacent corner having an opening through which said adjacent rod passes, said another member being curved to extend over and inwardly of the outer end of said first-named rigid member and having another opening therethrough through which the outer end of said first-named rigid member projects, and resilient means acting on said first-named rigid member to urge the edge of the opening therein into frictional engagement with said adjacent rod member.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
2,206,248	Bukolt	July 2, 1940
1,275,762	Safford	Aug. 13, 1918
497,168	Cronan	May 9, 1893
533,815	Jackson	Feb. 5, 1895