Sept. 16, 1952 J. J. FIELD 2,610,332

COMBINATION CRIB AND PLAYPEN

Filed Dec. 22, 1950 2 SHEETS—SHEET 1

Fig. 1.

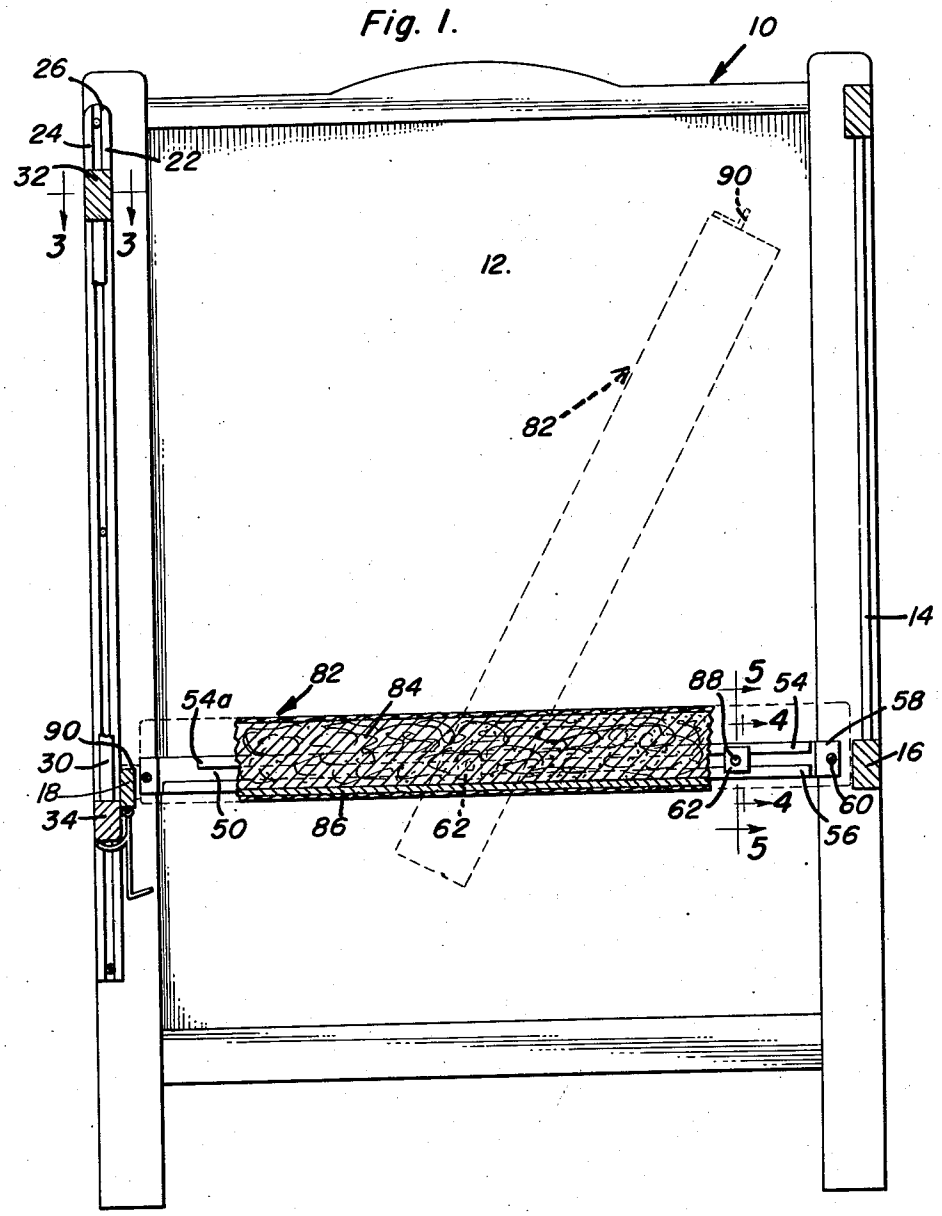

Fig. 2.

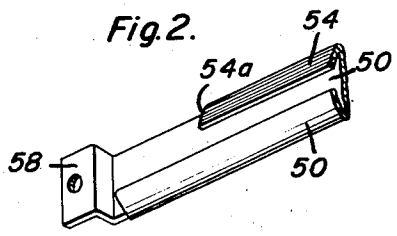

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Fig. 3.

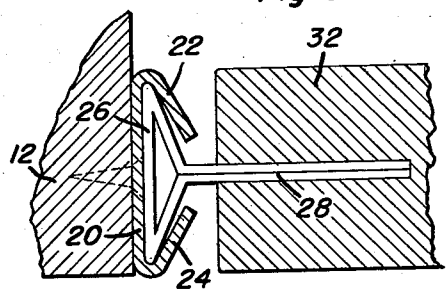


Fig. 4.

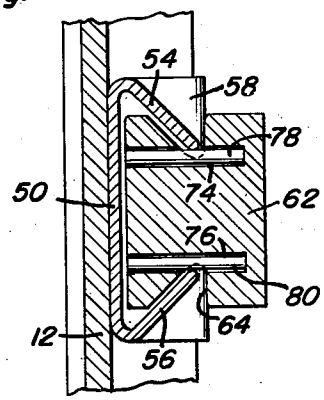


Fig. 5.

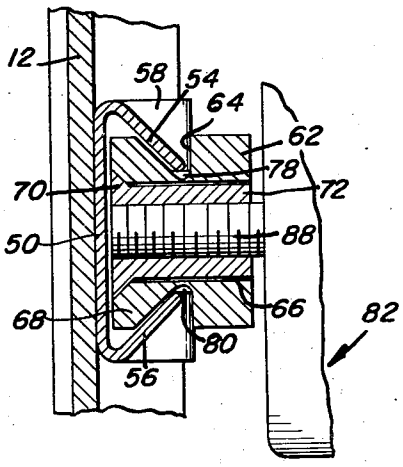


Fig. 6.

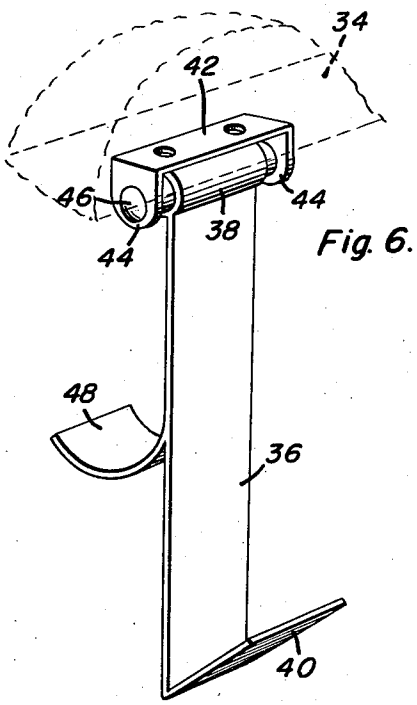
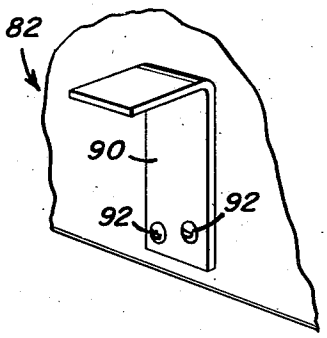


Fig. 7.



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2,610,332

COMBINATION CRIB AND PLAYPEN

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Application December 22, 1950, Serial No. 202,255

2 Claims. (Cl. 5—100)

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This invention relates to new and useful improvements in articles of furniture and the primary object of the present invention is to provide a combination crib and play pen that is quickly and readily converted from a crib to a play pen and vice versa in a convenient manner.

Another important object of the present invention is to provide a combination crib and play pen including a support having a soft surface forming a cushion or mattress and a hard surface forming a floor together with means rotatably and slidably securing the support to the combination crib and play pen so that a selected one of the surfaces will be exposed for use.

A further object of the present invention is to provide a combination crib and play pen including a sliding gate or closure together with novel and improved latch means for locking the gate in a raised position, and which latch means is actuated by the gate during the raising of the latter.

A still further aim of the present invention is to provide a combination play pen and crib that is simple and practical in construction, strong and reliable in use, extremely neat and attractive in appearance, inexpensive to manufacture, and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a transverse vertical sectional view of the present invention;

Figure 2 is a fragmentary perspective view of one of the guide tracks used in the present invention;

Figure 3 is an enlarged horizontal sectional view taken substantially on the plane of section line 3—3 of Figure 1;

Figure 4 is an enlarged vertical sectional view taken substantially on the plane of section line 4—4 of Figure 1;

Figure 5 is an enlarged vertical sectional view taken substantially on the plane of section line 5—5 of Figure 1;

Figure 6 is a perspective view of the latch means used in the present invention; and,

Figure 7 is a perspective view of one side of the support and showing the retainer member attached thereto.

Referring now to the drawings in detail, wherein for the purpose of illustration, there is disclosed a preferred embodiment of the present invention, the numeral 10 represents the combined crib and play pen which is composed of a pair of end members 12. A first side member or grid 14 joins the end members 12 and includes a lower horizontal rail 16.

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A second side member or horizontal bar 18 also joins the end members 12 and its upper flat face lies in a horizontal plane with the upper flat face of the rail 16.

A pair of vertical guides 20 are detachably secured to the inner faces of the end members 12 by fasteners or the like and include sloping flanges 22 and 24. A substantially triangular follower or slide 26 is slidably received in each of the guides 20 and these slides 26 include shanks 28 that are secured to ends of a gate or closure 30, and more particularly the upper and lower rails 32 and 34 of the gate 30, to permit raising and lowering of the gate in a convenient manner.

The above structure is broadly similar to that disclosed in my co-pending application, Serial No. 29,602, filed May 27, 1948, in that there is provided a sliding gate structure together with means on the end members guiding the sliding movement of the gate. Also, the previously referred to co-pending application embodies a latch means for holding or retaining the gate raised.

The principal features of this invention are to improve the manner in which the gate is slidably secured to the end members; the latch means; and to also provide a support, used both as a mattress and a floor board, as well as a novel and improved means for attaching the support to the end members.

The means for attaching the gate to the end members has been previously described, and the various other features will now be set forth in more specific detail.

The improved latch means includes an elongated latch member or arm 36 having a transverse horizontal sleeve 38 at its upper end and an inturned flange 40 at its lower end. A channel member 42 is secured to the lower edge of the bar 18 and its vertical leg portions 44 support a horizontal pivot or bolt 46 that extends through the sleeve 38. The arm 36 is normally disposed in a vertical position by its own weight and the weight of the flange 40.

A concave-convexed member or combined keeper and cam 48 is fixed to and projects laterally from the arm 36 intermediate the ends of the arm and is located in the path of movement for the gate.

As the gate is raised the lower rail 34 rides

against the convex surface of the member 48 to swing the arm 36 inwardly and to permit the rail 34 to clear the member 48, whereupon the arm 36 swings to its vertical position with the member 48 underlying the rail 34. When the gate is next lowered the rail 34 will be seated in the member 48 and against the concave surface of the member 48 as shown in Figure 1.

A horizontal guide track 50 is secured to the inner face of each end member 12. These guide tracks 50 include downwardly inclined upper flanges 54 and upwardly inclined lower flanges 56. Angulated attaching strips 58 are provided at the ends of the guide tracks 50 and are secured to the end members by fasteners 60.

A slide or block 62 is associated with each of the guide tracks 50. The blocks 62 are provided with peripheral, substantially V-shaped grooves 64 that receive the flanges 54 and 56 to retain the blocks relative to the guide tracks. The blocks 62 are formed with axial bores 66 whose inner ends 68 are enlarged to receive the head portions 70 of internally threaded bearing sleeves 72 that are journaled for rotation in the bores 66.

The blocks 62 are also provided with an upper pair of spaced parallel horizontal recesses 74 and a lower pair of spaced parallel horizontal recesses 76. The recesses 74, 76 parallel the bores 66 and intersect the grooves 64. Bearing rollers or pins 78 and 80 are received in the recesses 74 and 76 respectively and ride against the edges of the flanges 54 and 56 to reduce friction between the guide tracks and the blocks, as shown in Figures 4 and 5.

A support 82 is enclosed within the end members, the side member 14 and the gate 30. The support 82 includes a mattress or soft, waterproof surface 84 and a rigid backing 86 of wood or the like. Threaded rods 88 are fixed to the ends of the support 82 in any suitable manner and are located closer to the member 14 than the gate 30 when the surface 84 is disposed above the backing 86 as shown in full lines in Figure 1. The rods 88 are threaded into the sleeves 72 for sliding movement of the support with the blocks 62.

An angle member or retainer 90 is secured by screws or the like 92 to the side of the support 82 nearest the bar 18 when the mattress 84 is exposed above the backing 86 for use and overlies the bar 18 to support the support 82 in a substantially horizontal position. When the support is in this position, the same can not move laterally since the distance between the bar 18 and the rail 16 is substantially equal to the width of the support 82.

When it is desired to expose the backing 86, the support 82 is raised about the pivots or

sleeves 72 and the blocks are pulled toward the gate. Then the support is lowered toward the member 14 where the angle member 90 is supported on the rail 16.

The ends of the flanges 54 closest the gate 30 are notched, as at 54a, to permit removal of the blocks 62 from the guide tracks.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claims.

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

1. A combination crib and play pen comprising a pair of end members and a pair of side members between the end members, horizontal guide tracks on the end members, a support having first and second surfaces, means carried by the support slidably and rotatably mounted on said guide tracks to permit a selected surface of said support to be exposed for use, and means carried by the support for selectively engaging one of said side members to retain the support in a substantially horizontal position, said first mentioned means including a pair of blocks each having a peripheral groove, said guide tracks having flanges received in said grooves, said blocks also having axial bores, and sleeves journaled for rotation in said bores and detachably secured to said support.

2. The combination of claim 1 wherein said blocks each include a plurality of circumferentially spaced parallel recesses, said recesses paralleling said bores and intersecting said grooves, and bearing pins in said recesses and riding against said flanges.

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