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INFANT'S CRIB CONSTRUCTION HAVING A REMOVABLE FLOOR

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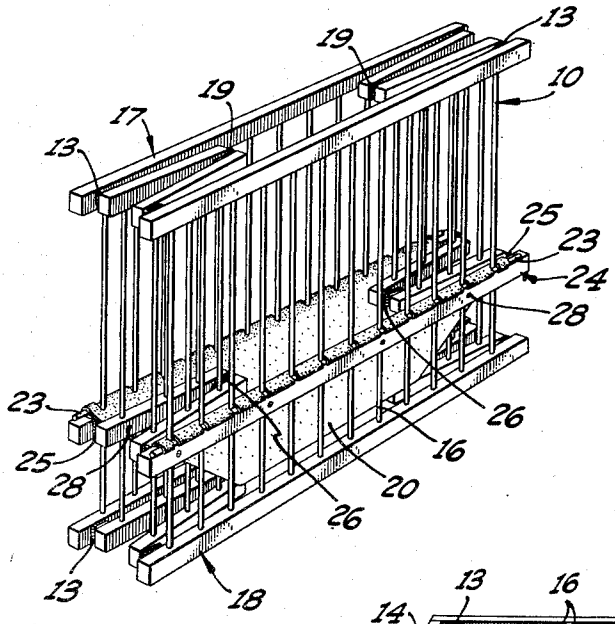


FIG. 1.

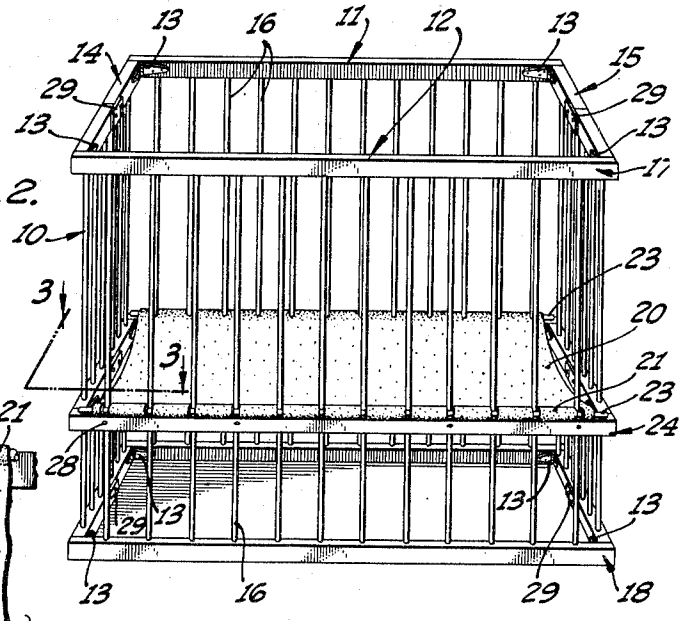


FIG. 2.

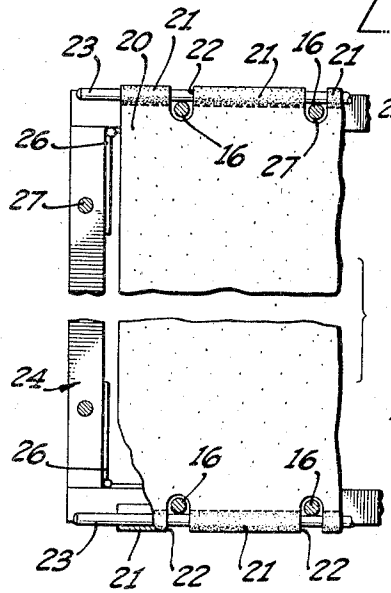


FIG. 3.

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INFANT'S CRIB CONSTRUCTION HAVING A REMOVABLE FLOOR

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6 Claims. (Cl. 5—99)

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This invention relates to an infant's crib, playpen or the like and is particularly directed to an improved form of support for a fabric sling extending between parallel sides of such device.

The principal object of this invention is to provide a removable fabric support sling for a crib, play-pen or the like, which is maintained in place by keeper bars positioned outside of the crib and passing through loops provided on the support sling.

Another object is to provide a structure of this type having parallel non-folding sides separated by parallel foldable sides, in which the loops on the fabric sling and the keeper bars extend along the non-folding sides, whereby the foldable sides in their operative position may tension the sling against excessive sagging.

A further object is to provide an improved mounting for a fabric support sling on parallel rows of spaced vertical bars forming the sides of a crib, playpen or the like, which includes a plurality of loops on the sling extending through spaces between the bars and maintained in position by a removable keeper rod outside of the bars.

Other objects and advantages will appear hereinafter.

In the drawings:

Figure 1 is a perspective view, showing a collapsible crib for an infant and incorporating a preferred embodiment of my invention, the device being shown in collapsed position;

Figure 2 is a perspective view of the crib in its operative position;

Figure 3 is a sectional plan view, partly broken away, taken substantially on the line 3—3, as shown in Figure 2.

Referring to the drawings, a folding crib structure, generally designated 10, may include parallel non-folding sides 11 and 12, which are connected by hinges 13 to the foldable sides or ends 14 and 15. The sides 11 and 12 and ends 14 and 15 may be defined by parallel rows of vertical spaced bars 16. The top rails of the sides and ends form a frame 17, receiving the upper ends of each of the bars 16 in fixed relation. Similarly, the lower rails on the sides and ends constitute a frame 18, which receives the lower ends of the bars 16 in fixed relation. If desired, the bars 16 may take the form of dowel rods, which are fixed into spaced holes provided in the upper frame 17 and lower frame 18. The foldable sides or ends 14 and 15 are provided with hinges 19 which, in cooperation with the hinges 13, permit the crib to be collapsed to the position illustrated in Figure 1.

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In accordance with my invention, a sheet of flexible material, such as canvas, cloth, or other natural or synthetic fabric, provides a support sling 20, which extends horizontally between the sides 11 and 12. This support sling 20 may take the form of a continuous loop of fabric or may comprise a single sheet having individual loops 21 formed along its opposed edges. Notches or gaps 22 are provided between adjacent loops 21 for reception of the individual bars 16 on the sides 11 and 12. It may be found desirable to reinforce the loops with additional thicknesses of material. The loops 21 extend outwardly between spaces between the bars 16 and a continuous keeper rod 23 is axially inserted through all of the loops on one side of the support sling 20.

Means are provided for supporting the fabric sling 21 and keeper bars 23 against gravity and, as shown in the drawings, this means includes an intermediate support frame 24 having parallel sides and ends connected by the hinges 25. Additional hinges 26 are provided centrally of the end members of the intermediate frame 24, so that the frame 24 folds in an exactly similar manner with the upper and lower frames 17 and 18. Holes 27 are provided in the frame 24 for sliding reception of the vertical bars 16 to permit the frame 24 to be mounted at any desired elevation between the frames 17 and 18. Any suitable or desirable means may be provided for securing the intermediate frame 24 on the rod 16 at the desired elevation and, as shown in the drawings, this means may include a plurality of screws 28 for fastening the frame 24 to the rods 16.

The fabric support sling 20 may be easily removed by withdrawing the keeper bars 23. If desired, a pair of such support slings may be kept on hand for a single crib in order that one may be in service while the other is being cleaned.

The support sling 20 may be easily installed when the crib is partially collapsed. The loops 21 on one side of the sling 20 are passed through openings between the bars 16 on one of the sides and the corresponding keeper rod 23 is passed through the loops to prevent disassembly. The other side of the support sling is then secured to the bar 16 on the other side of the crib in a similar manner. The foldable sides 14 and 15 are then moved to operative position, as shown in Figure 2. This action tensions the support sling 20 to minimize undesirable sag.

Any convenient form of pivoted latch 29 may be provided on the sides or ends 14 and 15 to maintain them in the extended operative position and prevent them from collapsing.

The infant may be placed directly on the surface of the sling 20 or the sling may be employed simply as a mattress support.

For a small baby, the intermediate frame 24 may be positioned at a relatively high elevation on the bars 16, so that the baby may be easily reached. As the infant grows, it may be desirable to lower the intermediate support 24 on the rod 18 to avoid danger of the infant falling from the crib and yet be supported at a convenient elevation.

A further feature of this invention lies in the construction wherein the support sling 20 may be carried either above or below the intermediate frame 24 so that, upon inverting the entire crib structure, the child may be supported at either a low elevation or high elevation, as desired.

Having fully described my invention, it is to be understood that I do not wish to be limited to the details herein set forth, but my invention is of the full scope of the appended claims.

I claim:

1. An infant's crib, play-pen or the like having a side defined by a row of spaced vertical bar elements, top and bottom horizontal members at opposed ends of the bar elements adapted to maintain the bar elements in position, an intermediate horizontal member fixed relative to the vertical bar elements and positioned between the top and bottom members, a fabric support sling, a plurality of loops on the sling extending outwardly through the spaces between adjacent bar elements, and a continuous keeper rod extending through the loops outside the vertical bar elements and supported by said intermediate horizontal member.

2. An infant's crib, play-pen or the like having parallel sides defined by two rows of spaced vertical bar elements, top and bottom frames at opposed ends of the bar elements adapted to maintain the bar elements in position, an intermediate frame fixed relative to the vertical bar elements and positioned between the top and bottom frames, a fabric support sling extending between said parallel sides, a plurality of loops on the sling extending outwardly through the spaces between adjacent bar elements, the loops being separated by recesses provided for reception of the bar elements, and a continuous keeper rod extending through the loops outside the vertical bar elements and supported by the intermediate frame.

3. An infant's crib, play-pen or the like having parallel sides defined by two rows of spaced vertical bar elements, top and bottom frames at opposed ends of the bar elements adapted to maintain the bar elements in position, an intermediate load supporting frame secured to at least some of the bar elements, a fabric support sling extending between said parallel sides, a plurality of loops on the sling extending outwardly through the spaces between adjacent bar elements, the loops being separated by recesses provided for reception of the bar elements, and a continuous keeper rod extending through the loops outside the vertical bar elements and supported by the intermediate frame.

4. An infant's crib, play-pen or the like having parallel sides defined by two rows of spaced vertical bars, top and bottom frames at opposed ends of the bars adapted to maintain the bars in position, an intermediate load supporting frame having a plurality of spaced holes slidably receiving the bars, means whereby said intermediate frame may be adjustably secured to at least some of the bars, a fabric support sling extending between said parallel sides, a plurality of loops on the sling extending over the intermediate frame through the spaces between adjacent bars, the loops being separated by recesses provided for reception of the bars, and a continuous keeper rod extending through the loops outside the vertical bars.

5. An infant's crib, play-pen or the like rectangular in shape having parallel non-folding sides joined by parallel centrally folding sides, the non-folding sides being defined by two rows of spaced vertical bars, a horizontal member carried on each row of bars intermediate the ends thereof, a fabric support sling extending between said non-folding sides, a plurality of loops on the sling extending outwardly through the spaces between adjacent bars and over said horizontal member, a continuous keeper rod extending through the loops outside the vertical bars, the folding sides when extended to operative position serving to tension the sling against excessive sag.

6. In a collapsible crib, play pen, or the like, the combination of parallel nonfolding sides joined by parallel inwardly folding sides, the nonfolding sides including two rows of spaced vertical bars, a horizontal member carried on each row of bars intermediate the ends thereof, a fabric support sling extending between said nonfolding sides for the full length thereof, a plurality of loops on the sling extending outwardly through the spaces defined between adjacent bars and over said horizontal member, and keeper rods extending through the loops outside the vertical bars, the parts being proportioned so that sufficient slack is provided in the sling when in collapsed position to receive the inwardly folding sides.

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