

March 27, 1956

C. KOSTKA
CHILD'S FEEDING BOTTLE SUPPORT-BLANKET
COVERING RETAINER APPURTENANCE

2,739,320

Filed Jan. 31, 1952

2 Sheets-Sheet 1

Fig. 1.

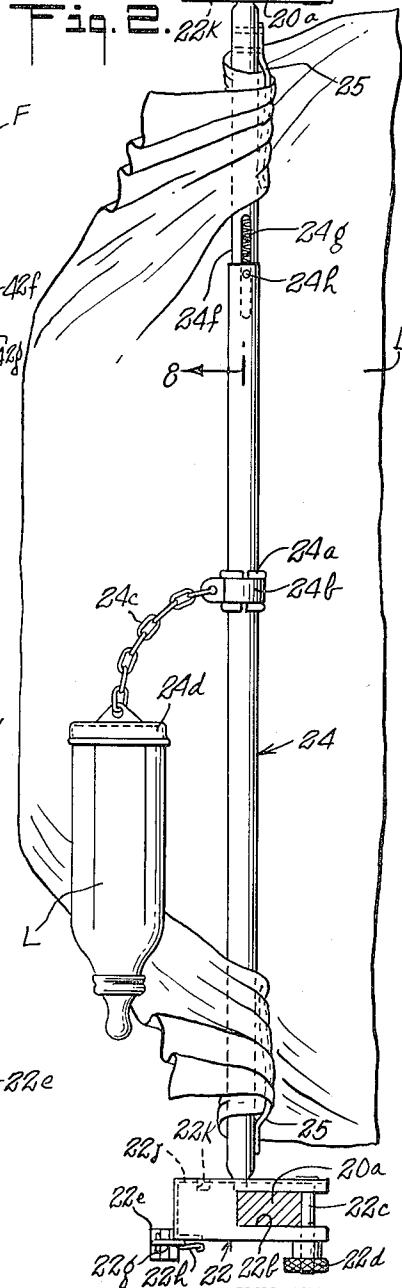
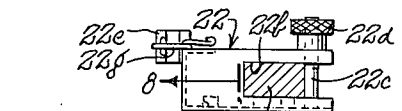
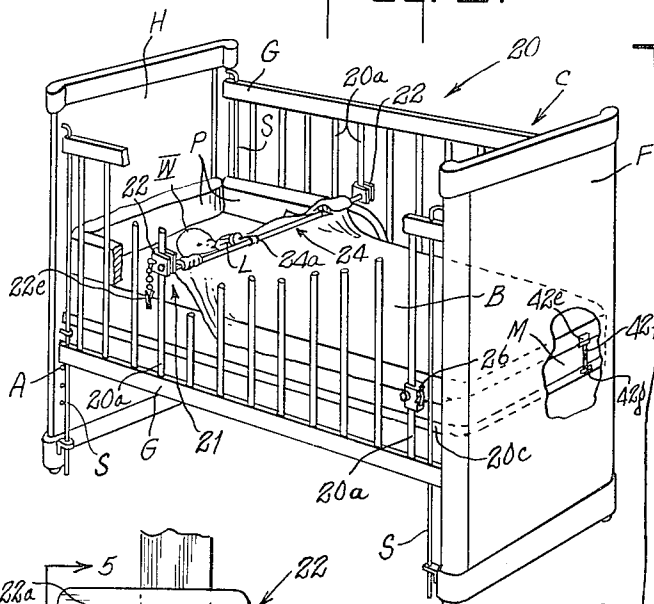


Fig. 3.

Fig. 4.

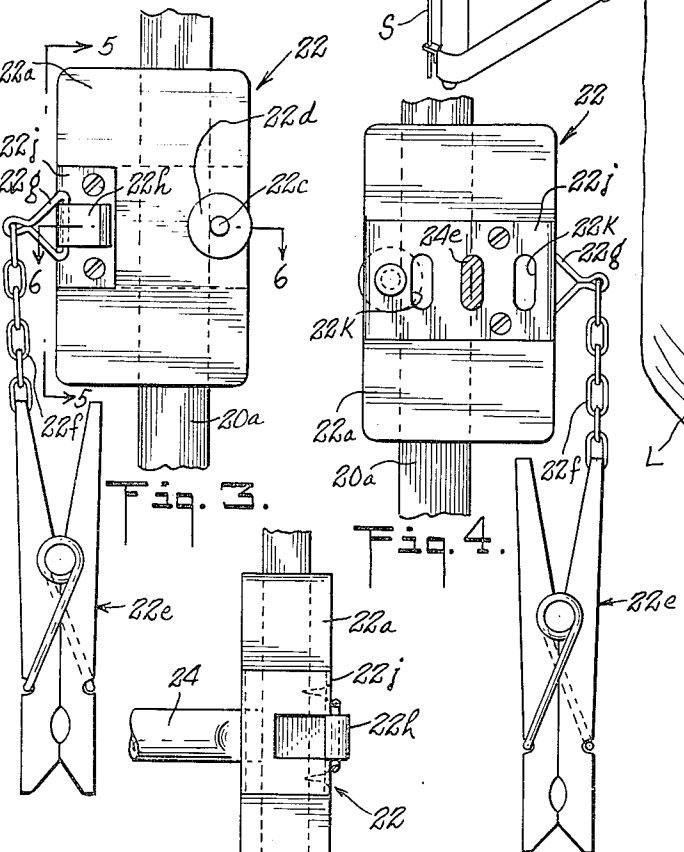


Fig. 5.

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2 Sheets-Sheet 2

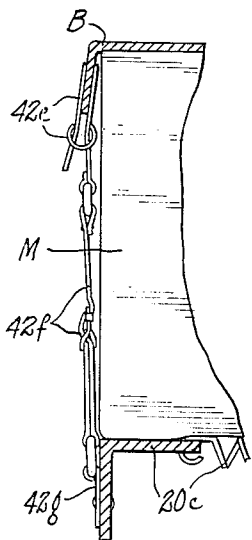
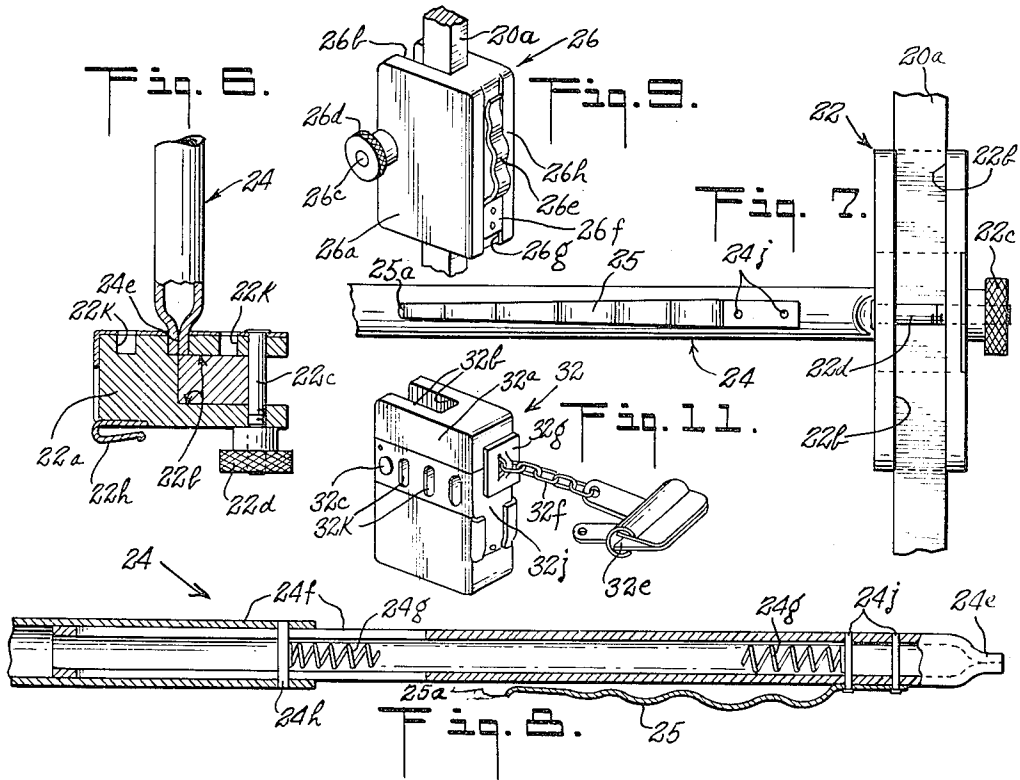


Fig. 13.

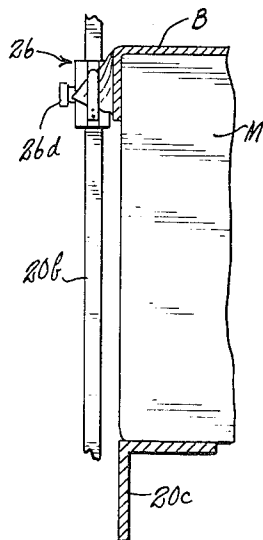
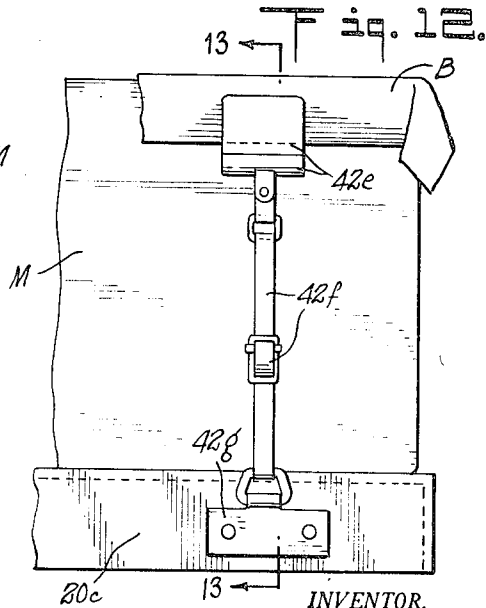


Fig. 10.



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CHILD'S FEEDING BOTTLE SUPPORT-BLANKET COVERING RETAINER APPURTENANCE

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Application January 31, 1952, Serial No. 269,188

6 Claims. (Cl. 5—93)

This invention relates to appurtenances for promoting children's comfort, to facilitate nursing from a feeding bottle while resting in a carrying basket or crib, and to retain a body covering or blanket in an effective position against accidental displacement.

Among the objects of the invention is to improve appurtenances of the character described which shall comprise few and simple parts that are readily incorporated or installed in children's resting or sleeping furniture, such as in cribs of conventional construction, yet in no-wise detract from an attractive appearance thereof; which shall permit the child relative free movement while nursing, playing in a reclined position, or sleeping; which shall be relatively cheap to manufacture; which shall be easy to manage and provide a wide range of adjustment required for promoting comfort; which shall be selectively useful in parts or as a whole; which shall be free from possibly causing accidental personal injury to the user; and which shall be practical and efficient to a high degree in use.

Other objects of this invention will in part be obvious and in part hereinafter pointed out.

The invention accordingly consists in the features of construction, combination of elements and arrangement of parts which will be exemplified in the constructions hereinafter described and of which the scope of application will be indicated in the claims following.

Fig. 1 is a perspective view of a baby's crib, represented as of conventional construction, having incorporated or installed therein an appurtenance shown to embody the invention to facilitate bottle nursing and selectively retaining a blanket or covering in a desired adjusted position to promote comfort while feeding, resting or in a reclined playful mood, a portion of the crib fence side or grille guard wall being broken away to expose the improved appurtenance in an operative position.

Fig. 2 is an enlarged fragmentary plan view showing details of the appurtenance structure including the removably mounted adjustable supporting bar for a nursing bottle and covering or blanket retaining means shown in Fig. 1.

Fig. 3 is an enlarged front elevational view showing an exterior facing side of the near end height adjusting block for the supporting bar mounted as shown in Fig. 1, and at the bottom in Fig. 2, with a covering retaining clamp, only a fragmentary portion of the crib guard wall rod being shown.

Fig. 4 is a view similar to Fig. 3 but showing an interior facing side of said end height adjusting block with the covering clamp inoperative.

Fig. 5 is an end view of the end height adjusting block as seen from line 5—5 in Fig. 3.

Fig. 6 is a cross-sectional view taken on lines 6—6, in Fig. 3 showing the structure thereat with the blanket or covering engaging clip removed.

Fig. 7 is a fragmentary view of the far end portion of the adjustable supporting bar shown in Fig. 1 fitted into the height adjusting block opposite as shown in Figs. 3 to 6.

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Fig. 8 is an enlarged cross-sectional view of the spring end of the adjustable supporting bar taken on lines 8—8 in Fig. 2 but removed from engagement with the height adjusting blocks.

Fig. 9 is a perspective view of a height adjustable block for securing the covering at the grille side spindles adjacent the foot end of the crib as shown in Fig. 1.

Fig. 10 is an enlarged fragmentary view in elevation, partly in section of the height adjustable block shown in Fig. 9 in operative position.

Fig. 11 is a perspective view of a height adjusting block like that shown in Figs. 1, and 3—6, but showing a modified form of slidably detachable covering clamp attachment, the latter being shown detached from the block.

Fig. 12 is a fragmentary view in elevation of a portion at the foot end of the crib mattress showing a modified form of a covering securing means that can be substituted for that shown in Fig. 10, and

Fig. 13 is a cross-section view taken on line 13—13 in Fig. 12, showing the details of construction of the covering securing means.

Referring in detail to the drawing, 20 denotes a child's resting or sleeping furniture piece embodying the invention incorporating a feeding bottle support and blanket covering retainer appurtenance designated generally at 21. The latter is shown installed in a crib C having upright sides or grille guard walls G, each formed with suitably spaced apart spindles 20a. Said guard sides G with head-board H and foot-board F of crib C may enclose, that is, fence-in, a suitable bedspring 20c topped by mattress M, which are supported on height adjusting fittings A projecting from said crib head-board H and foot-board F in the well understood manner and as is clear from Fig. 1.

When said furniture piece 20 equipped with the installation of appurtenance 21 as above described, is used for a very young infant or baby W, there may also be provided a suitable bumper pad or pads P upstanding on mattress M to extend, if desired, along the head-board H and part way along portions of both guard walls G adjoining said head-board H to just beyond oppositely positioned spindles 20a, a suitable covering or blanket B also being provided in practising the invention to be retained by appurtenance 21 in an effectively arranged spread position about infant W, as shown in Fig. 1.

As shown in Figs. 1 to 7, appurtenance 21 is seen to include a pair of spaced apart bearing blocks 22, each of which may be movably mounted at an aligned leveled height on fence spindles 20a as for example, on the fourth spindle 20a from head-board H. Said blocks 22 may be made of any suitable material machined or molded, such as of metal, wood or plastics, and as here shown, each comprises a neatly designed body 22a, formed with a U-shaped slideway 22b recessed in one of its sides fitted for movement on spindle 20a. Said blocks 22 are adjustably set along said spindles 20a at a desired height above the level of mattress M, each block 22 having a suitable clamping means, such as, clamp screw 22c and finger nut 22d for releasably retaining said blocks 22 in an adjusted position on said spindles 20a.

Each screw 22c may pass through the side walls of slideway 22b for clamping and confining the portion of the spindle 20a therein, and each finger nut 22d may extend from the exterior side of block 22 for convenient manipulation, as is clear from Figs. 1, 2, 3, and 7.

Each block 22 may also be provided with a suitable spring actuated gripper or clip 22e of any well known construction for releasably engaging the covering or blanket B to retain the latter against displacement from a desired tucked or folded-in position about the infant W. Each clip 22e may be movably anchored to block 22 by means of a chain 22f or other suitable suspending means,

terminated by an eyelet or ring 22g which is releasably engaged by a hook 22h, the latter being formed, if desired, from a metal stamping 22j secured to or integrally formed with block body 22a.

To support a nursing bottle L for feeding the infant W, appurtenance 21 also includes an elongated extensible stretcher bar 24 having a rider member 24a frictionally fitted for adjustment therealong. The latter serves as a convenient attachment means for releasably engaging a hook 24b upon one end of a flexible suspension means, such as chain 24c, the other end of said chain 24c being secured to a suitable carrier or clamping holder 24d made of rubber, or other elastic or spring grip-forming material firmly gripping the bottle L as is clear from Fig. 2. Rider member 24a may, if desired, be made in the form of a spring split-ring which is clampingly retained in any adjusted position along bar 24.

Bar 24 may be made of suitably molded material or of drawn tubing and when made of metal, opposite ends 24e thereof may be pressed, if necessary, into non-circular shapes that will neatly fit for projection into and retraction from correspondingly shaped slots or socket openings 22k provided in said body 22a and stamping 22j of block 22. Said bar end 24e may be made to snap into cooperative mounting position in socket openings 22k of blocks 22 when the latter are set in horizontally aligned clamped adjustment by providing a suitably constructed spring actuated extensible mid-portion for said bar 24, as for example, telescoping sections 24f having a coiled compression spring 24g extending therethrough between spaced apart rivets 24h and 24j, rivet 24h also serving to retain the telescoping sections from relative turning, and to limit relative in and out movements of said telescoping sections 24f as is clear from Figs. 2 and 8.

Extensible bar 24 not only flexibly supports bottle L to reach infant W when the infant is in any reclining position on the crib mattress M, as is clear from Fig. 1, but also serves as a retaining means against displacement of the covering or blanket B from an effective position. As shown in Figs. 2, 7, and 8, said retaining means is seen to comprise leaf spring 25 which are secured inwardly of opposite ends 24e of bar 24 to extend therealong. Said springs 25 retain covering or blanket B in a desired adjusted comfortable position before, during and after bottle nursing as is clear from Figs. 1 and 2. For such purposes said leaf springs 25 may be secured in alignment by one end of each with free ends 25a thereof facing each other, and so constructed and arranged to releasably grip opposite edge portions of covering B between ends of said springs 25 and the adjacent portions of bar 24. If desired said leaf springs 25 may each be shaped and formed to increase the frictional gripping effect thereof by providing a transversely extending corrugated structure as shown in Figs. 7 and 8.

While either spring clips 22e of blocks 22, or the leaf springs 25 arrangement on bar 24 may selectively be used to retain the covering or blanket B in a desired position at the head end of crib C, the foot end portion of said covering or blanket B may also be retained in a desired effective position by providing a second pair or set of blocks 26 adjustably mounted on those spindles 20a, which, as shown in Fig. 1 may be the spindles closest to foot-board F.

Blocks 26, as shown in Figs. 9 and 10 may each be similar to blocks 22, above described, in having a body 26a, slideway 26b, in which spindle 20a is fitted, clamp screw 26c and finger tightening nut 26d, said body 26a, being constructed of the same material as body 22a of block 22.

Said blocks 26, if desired, however, instead of retaining spring clips 22e as shown in Figs. 3 and 4, each may be provided with a single leaf spring 26e anchored at one end 26f thereof within groove 26g to extend along side 26h. Said spring 26e may be constructed to have a corrugated shape to increase the gripping effect on the por-

tions of covering or blanket B releasably retained thereunder in groove, 26g as is clear from Figs. 1 and 9.

The utility of the invention will now be apparent. After constructing blocks 22 and 26, as for example as shown in Figs. 3 and 9, each complete with either a suspended spring clip 22e for block 22 or a leaf spring 26e for block 26, and extensible bar 24 provided with said covering retainer springs 25 as shown in Figs. 2, 7 and 8, the improved appurtenance 21 may be installed or incorporated in a conventional type of child's crib C, as shown in Fig. 1, with slideways 22b of blocks 22 assembled on crib side spindles 20a, and slideways 26b of blocks 26 on spindles 20a adjacent the foot of crib C.

The infant W may then be placed in a comfortable reclining position on mattress M with its head resting at a short distance from the head-board portion of bumper pad P as shown in Fig. 1. Blocks 22 may then be adjusted for horizontal level alignment on the pair of said spindles 20a at a height, as for example at about five or six inches above the infant's chest. Extensible bar 24 may be snapped into a horizontal operative position by inserting opposite ends 24e thereof into socket openings 22k, said bar 24 and telescoping sections 24f thereof, through the action of compression spring 24g, permitting such snap-in arrangement, and then thereafter firmly securing said bar 24 to extend across the crib C removably supported by blocks 22, as is clear from Figs. 1 and 2.

There may also be provided a plurality of spaced apart pairs of socket openings 22k on blocks 22 for selectively mounting bar 24 nearer or further away with relation to the position of the infant W.

Where no covering or blanket is required the infant W may be conveniently bottle fed by simply attaching hook 24b, from which the feeding bottle L is suspended to ring rider 24a. By sliding the latter against its spring grip action on bar 24, bottle L may be located to conveniently accommodate practically any position taken by the infant W on mattress M.

Most often a covering or blanket B is required by the infant W while nursing from the supported bottle L, in which event the front portion of covering B is wrapped around bar 24 and opposite edge portions thereof slipped under springs 25 and then thereover, as is clear from Fig. 2, so that the front end of covering or blanket B can be readily extended to overlie the infant W. In adjusting the portions of the covering or blanket B retained by springs 25 and the height of the blocks 22 on spindles 20a, the infant W, may be snugly or loosely enveloped about the chest and neck.

To prevent the infant W from kicking off the foot covering portion of blanket B, such portions may be retained in desired spread by slipping opposite edge borders thereof down under springs 26e thereby with retention of said front portion of blanket B, as described above, effectuating a desired complete coverage of the body of the infant W.

When it is found desirable to remove bar 24, as for example after completion of the feeding of infant W, said bar 24 may be readily removed by simply snapping ends 24e thereof out of said socket openings 22k after slipping said opposite front edge portions of blanket B from engagement with bar springs 25 for releasing same. Suspended spring clips 22e may then be attached to grip such blanket edge portion instead of said bar springs 25 as is clear from Figs. 1 and 2, and blocks 22 adjusted for height as required to provide the desired degree of spread tension of covering or blanket B at the front end portion thereof. Said suspended spring clips 22e may be readily detached when not in use by disengaging eyelets 22g from block hooks 22h for leaving the block 22 free from dangling parts, if so desired.

In Fig. 11, a block 32 is shown having a body 32a, slideway 32b, clamp screw 32c with a suitable finger adjusting nut therefor, and a stamped plate 32j provided with socket openings 32k all constructed similar to block

22 and the latter's corresponding parts described above. Block 32 may be used in place of block 22, spring clip 32e of the former being suspended by chain 32f, terminated by slide coupling 32g so that said spring clip 32e may be readily detached. Spring clip 32e as part of appurtenance 21 when in suspended position may serve the same purposes as spring clip 22e of block 22 described above and shown in Figs. 1 to 7.

It is to be noted that since blocks 22 and 26 are each adjustable along crib side spindles 20a, said blocks may be positioned in proper covering or blanket B retaining relation to correspond to any set height location of mattress M on spring 20c as determined by said crib fitting A.

As a substitute for blocks 26 which retain the foot covering portion of blanket B in desired spread position, there may be provided as shown in Figs. 12 and 13, flexibly adjustably mounted spring clips 42e, having a length-adjusting buckle fitted tape 42f, one end of the latter being suitably anchored to spring 20c through, as for example, ring eyelet fitting 42g. Tapes 42f may be adjusted to a length required for engaging with the foot portion of covering or blanket B to be retained in the well understood manner, and as is clear from Figs. 12 and 13.

Since said spring clips 42e are attached to spring 20c, said clips 42e are mounted in a self-adjusting relation with respect to the adjusted position through said fitting A.

Through the use of the invention as described above appurtenance 21 in part or as a whole provides a highly practical and efficient means to handle a wide range of varying requirement of service in either feeding an infant W reclining on mattress M of crib C and retaining a covering or blanket B desirably wrapped about such infant W, or for simply supporting a nursing bottle L, or merely retaining the covering or blanket B in an effective spread position.

It will thus be seen that there are provided appurtenances of the character described whereby the several objects of this invention are achieved and which will be well adapted to meet the conditions of practical use.

As various possible embodiments might be made of the above invention, and as various changes might be made in the embodiments above set forth, it is to be understood that all matter herein set forth or shown in the accompanying drawing is to be interpreted as illustrative and not in a limiting sense.

Having thus described my invention I claim as new and desire to secure by Letters Patent:

1. An infant nursing bottle support and covering retaining appurtenance in combination with a crib having guard sides formed with spindles, comprising a pair of vertically adjustable block bodies mounted on aligned spindles of oppositely positioned crib guard sides, a bar secured in position to extend horizontally transversely of the crib width between said bodies, attachment means for corner portions of said covering carried by said bar adjacent opposite ends thereof, and a suspended carrier for a nursing bottle mounted for adjustment along said bar between said covering attachment means.

2. An appurtenance of the character described associated with vertically extending guard sides of an infant's crib, a bar removably mounted on the crib structure to extend horizontally between said guard sides, a suspended carrier for a nursing bottle mounted for adjustment along mid portions of said bar, and spaced apart spring actuated covering attachment means carried by the bar adjacent the opposite ends thereof.

3. An appurtenance of the character described associated with vertically extending guard sides of a crib, means supported to extend between said sides for supporting a nursing bottle in suspension for feeding an infant resting in a reclining position in the crib, and clamp-attachment means for retaining edge portions of a covering to opposite end portions of said bottle supporting means during the infant feeding.

4. The combination defined in claim 1 in which said bar is formed as an extensible structure spring pressed into an extreme position, and said block bodies being provided with socket-openings to receive opposite ends of said bar for firmly retaining the latter in said secured position.

5. In combination, an infant's crib having guard sides formed with vertically extending spindles, a crib mattress lying between the guard sides, a covering for an infant in reclining position on the mattress having an end terminating at the head and shoulder region of the reclining infant, a pair of block bodies slidably mounted on aligned spindles of the oppositely positioned crib guard sides in the head region of the crib, means adjustably securing each of said block bodies in a desired position on its spindle above the level of the crib mattress a distance sufficient to clear the head and shoulders of the infant, a bar extending horizontally transversely of the crib releasably mounted on said block bodies, a suspended carrier for a nursing bottle adjustably mounted along a mid-portion of said bar, said bar having spaced apart attachment means for longitudinal side edge portions of the covering in the head and shoulder region retaining the latter in a raised position above the shoulders of the infant.

6. An appurtenance of the character described for an infant's crib having guard sides formed with vertical spindles, comprising a pair of block bodies slidably mounted on aligned spindles of oppositely positioned crib guard sides, means for adjustably securing each of said block bodies in a desired position on its spindle above the level of the crib mattress, a bar sized to extend horizontally transversely of the crib between said block bodies, means carried by said block bodies and said bar for mounting the bar on said block bodies when in said secured position on the vertical spindles, said bar having a pair of spaced apart aligned leaf spring clips, each clip being fastened to lie against said bar at an opposite end thereof and each having a free end facing the other, said bar and clips being so constructed and arranged that when the bar is secured in operative position on the crib sides and extending horizontally spaced above the mattress transversely of the width of the crib the head end of said covering will extend under the bar with edge portions folded back and passing over the bar and through said spring clips for retaining the covering in a raised position above the shoulders of an infant lying in the crib.

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