J. HUDRY.

CRIB.

APPLICATION FILED MAY 31, 1912.

1,054,416.

Patented Feb. 25, 1913.

3 SHEETS—SHEET 1.

Fig. 1.

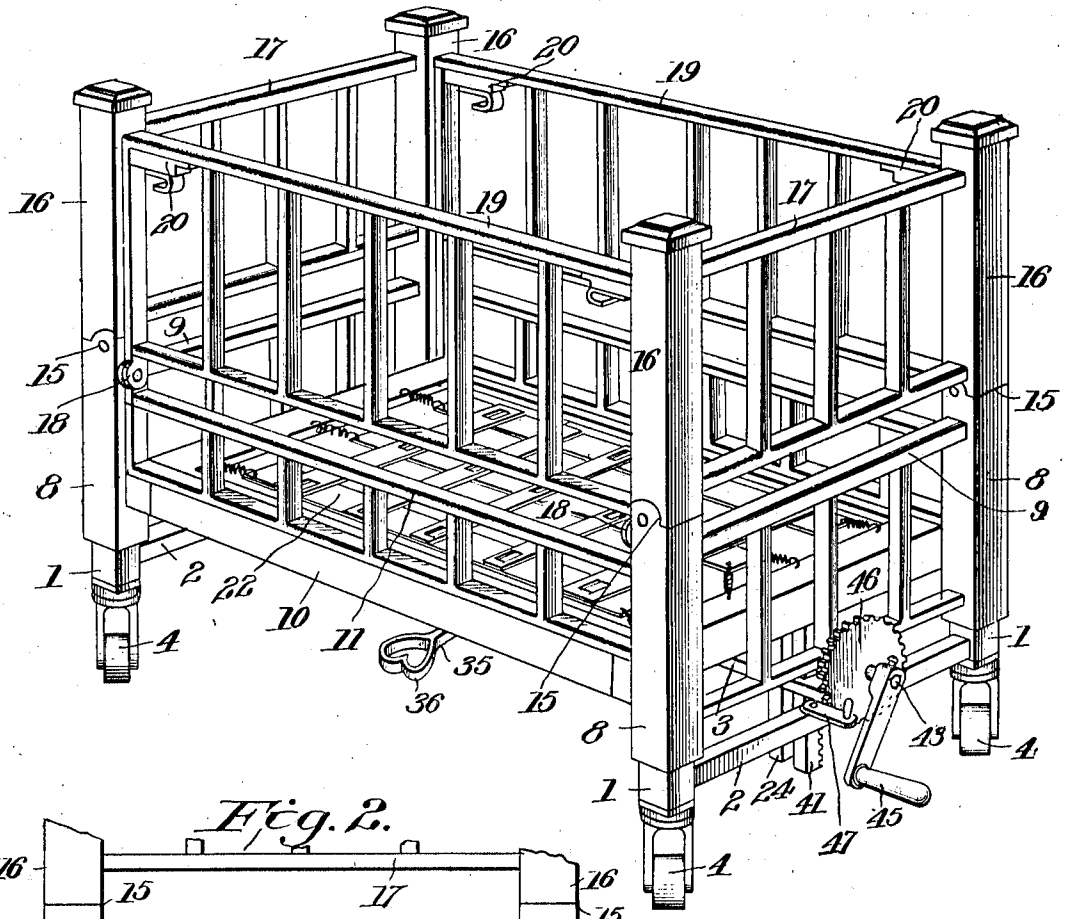
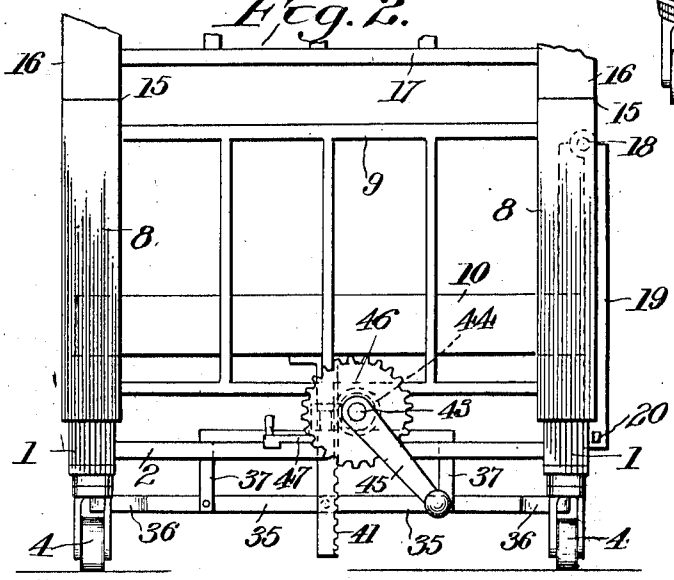


Fig. 2.



Witnesses

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3 SHEETS—SHEET 2.

Fig. 3.

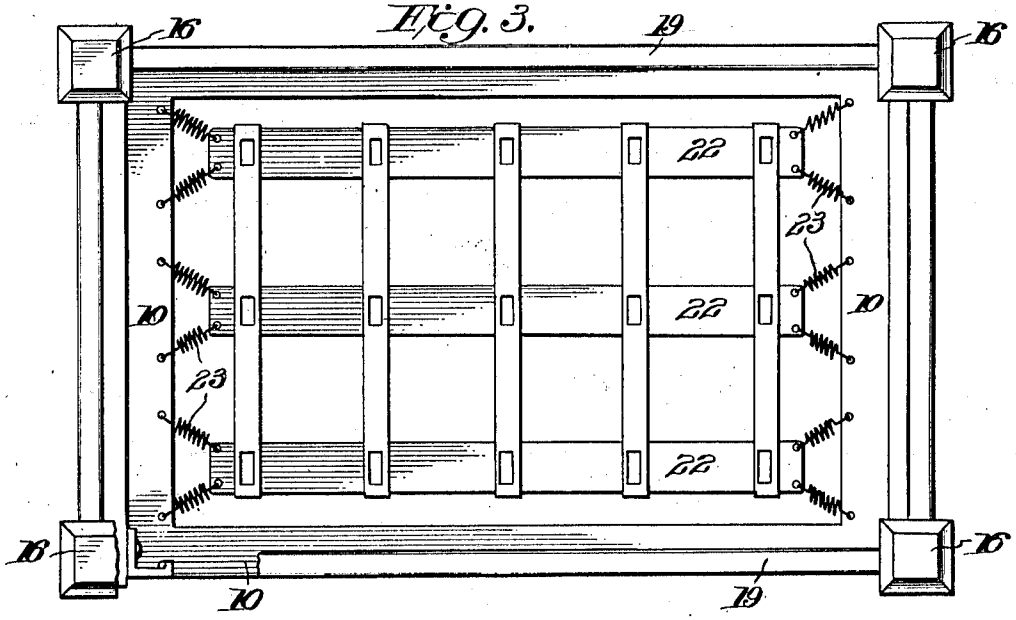
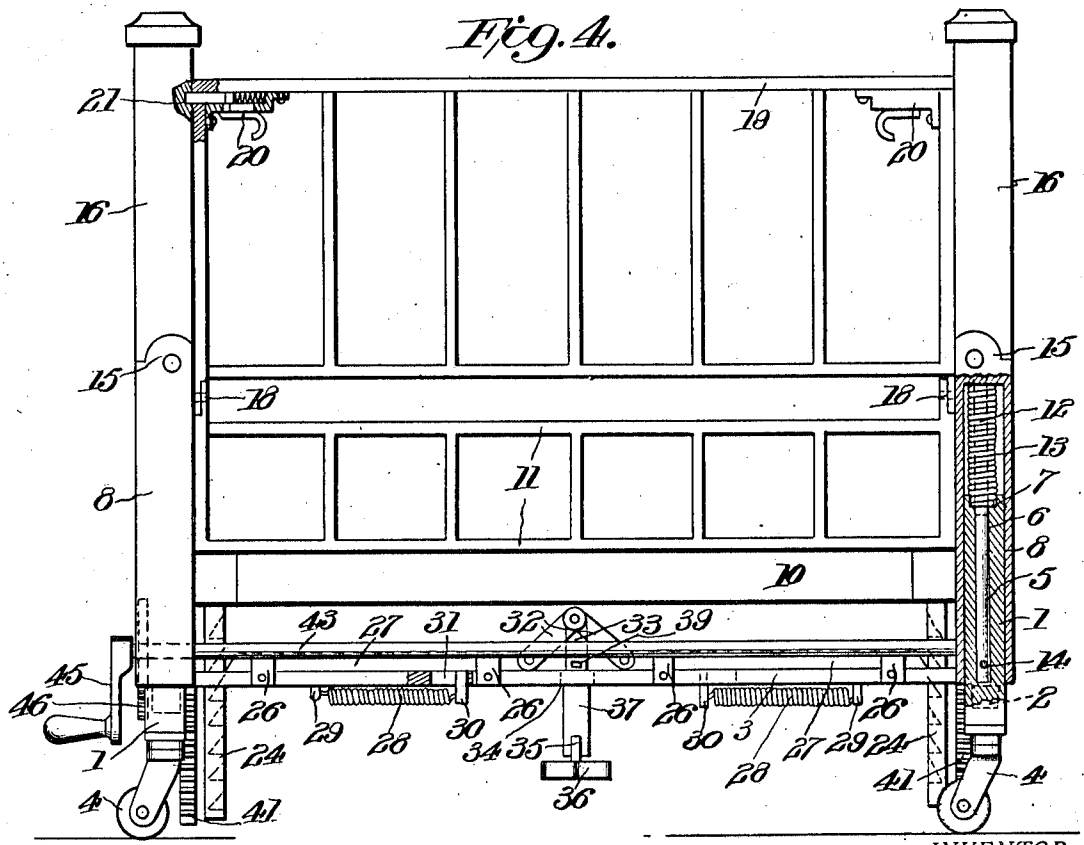


Fig. 4.



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3 SHEETS—SHEET 3.

Fig. 5.

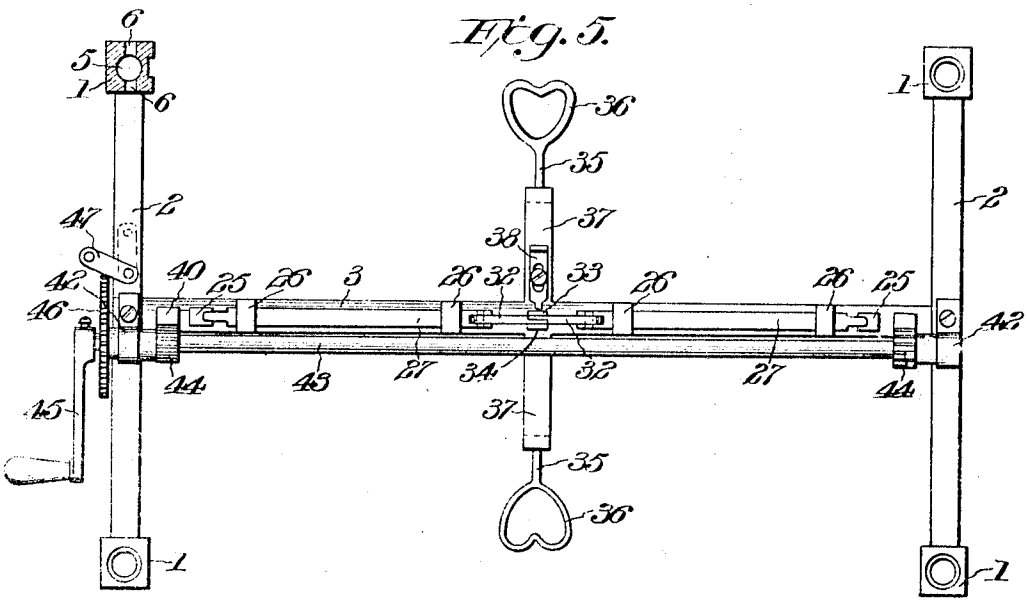
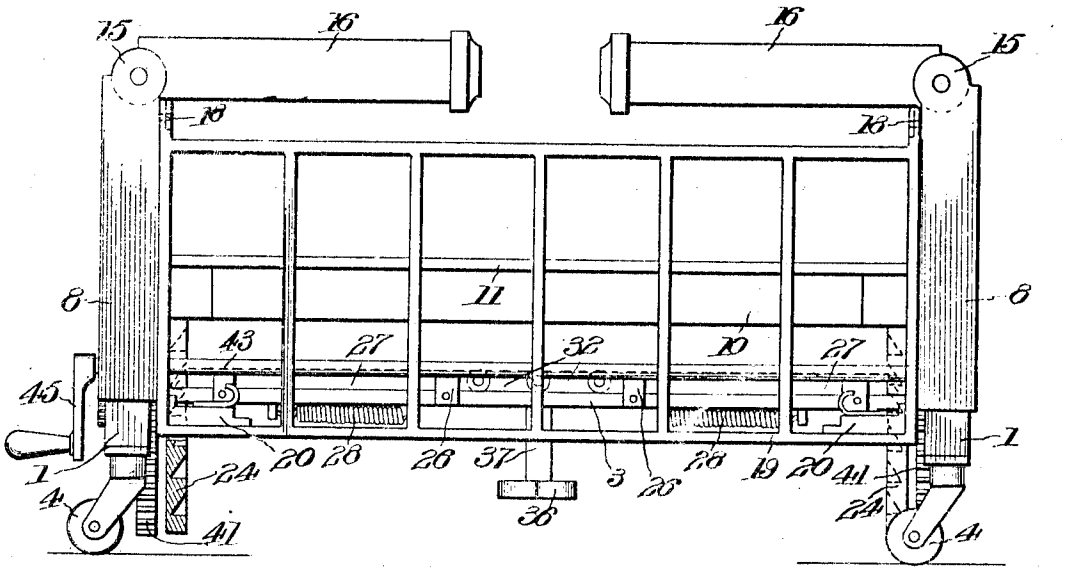


Fig. 6.



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UNITED STATES PATENT OFFICE.

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CRIB.

1,054,416. Specification of Letters Patent. Patented Feb. 25, 1913.

Application filed May 31, 1912. Serial No. 700,766.

To all whom it may concern:

Be it known that I, JOHN HUDRY, a citizen of the United States, residing at Hazleton, in the county of Luzerne and State of Pennsylvania, have invented a certain new and useful Improvement in Cribs, of which the following is a full, clear, and exact description.

The object of this invention is to provide a crib adapted to be folded into comparatively small compass, whereby the crib may be placed out of the way when not in use, by rolling it under an ordinary bed, and also adapted to be adjusted vertically so that the mattress of the crib may be brought to a level or in line with the mattress of the ordinary bed when the crib is used alongside of a bed with one of its side guards lowered to permit of the convenient handling of an infant occupying the crib by its mother or other attendant occupying the bed.

The invention consists of a crib comprising a truck or supporting frame having upwardly extending corner posts, a folding crib structure having corner posts slidably mounted upon the corner posts of the truck or supporting frame, means for automatically elevating the crib structure and stopping and locking it in its elevated position at any desired height; and the invention also consists in providing means for throwing out of operation the mechanism for controlling the automatic elevating means, and providing means for manually elevating and lowering the crib structure, all substantially as I will proceed now more particularly to set forth and finally claim.

In the accompanying drawings, illustrating the invention, in the several figures of which like parts are similarly designated, Figure 1 is a perspective view showing the crib in a set-up condition. Fig. 2 is an end view of the manually operating end of the crib, the upper portion being broken away. Fig. 3 is a top plan view. Fig. 4 is a side elevation, with one of the telescoping corner posts and one of the latches for the side rail in section. Fig. 5 is a top plan view of the truck or supporting frame, showing the controlling means for the automatic operation of the crib and the manual operating means, and Fig. 6 is a side elevation showing the crib in its folded condition.

The truck or supporting frame comprises the posts 1, connecting cross rails 2, and a central longitudinal bar 3 connecting the cross rails 2. The truck is provided with any suitable rolling casters 4, preferably of the ball bearing type as herein shown, whereby the crib may be readily rolled from place to place. The posts 1 as herein shown are rectangular in cross section; and may be constructed of any suitable light and strong metal, such as aluminum or brass, or of any other desired material, and may extend any suitable distance above the cross rails 2 and central bar 3 in accordance with the extent of adjustment it is desired to obtain. The posts are provided with a central longitudinal bore 5, and opposite slots 6 extending into said bore, see particularly Figs. 4 and 5, and recesses 7 in their upper ends, see Fig. 4.

The crib proper comprises the hollow corner posts 8, connecting and slatted end rails 9, and the mattress frame 10 connected to the corner posts 8 by any suitable or approved corner fastenings. Above the side rails of the mattress frame 10 and extending between the end posts 8 is a guard rail 11, of sufficient height to maintain the mattress in place upon its supporting frame and springs. The corner posts 8 are made hollow and correspond in cross-sectional shape to the posts 1 of the truck or supporting frame and are adapted to telescope or slide upon the posts 1, and fixed in the upper end of the hollow posts 8 are guide rods 12, see Fig. 4, adapted to enter the bores 5 of the posts 1, coiled springs 13 being arranged within the hollow posts 8 upon the rods 12 and engaging the upper ends of posts 8 and resting upon the upper ends of the posts 1, the recesses 7 in the posts 1 affording seats for the lower ends of the springs 13. The rods 12 at their lower ends are provided with cross pins 14, see Fig. 4, engaging the slots 6 in the posts 1, and serving to limit the upward movement of the posts 8. Connected with the posts 8 at their upper ends,

as by rule joints 15, are the extension posts 16 connected at the head and foot of the crib by the slatted rail guards 17, the abutting shoulders of the rule joints 15 being arranged outward so that the posts 16 and their attached guard rails 17 may be folded down inwardly upon the mattress frame, the said posts 16 being of a length about equal to one half of the length of the crib so that they will not fold one upon the other.

Pivotally secured to the frame adjacent to the upper ends of the posts 8 and above the guard rails 11, as by hinge joints 18, are the slatted side guards 19, said guards being adapted to be folded outwardly and downwardly against the sides of the mattress frame; and in order to lock said guard rails 19 in their position of use any suitable latches, such as sliding-bolt spring latches 20 are secured to the underside of the upper rails of the side guards 19 and adapted to engage holes or other keepers 21 in the posts 16, as clearly shown in Fig. 4.

As more particularly shown in Fig. 3, the mattress frame is provided with a spring bed bottom 22, constructed of longitudinal and transverse strips of thin sheet metal provided at their intersections with complemental slots and lugs for securing the strips together, and supported in said frame by coiled springs 23, as described and claimed in an application for patent filed by me May 22, 1912, Serial Number 699,049.

Secured to and depending from the opposite end rails of the mattress frame 10 are ratchet bars 24, said bars passing down through openings 25 in the central connecting bar 3 of the truck or supporting frame, and mounted to slide upon the central bar 3 and guided in loops 26 on said bar are locking dogs or pawls 27, having their outer ends so constructed as to engage said ratchet bars 24, to lock said bars against upward movement, but permitting a downward movement thereof. Coil springs 28 arranged beneath the bar 3 and having one end connected to said bar, as at 29, and their other ends connected with pins 30 projecting from the locking dogs 27 through suitable slots 31 in said bar 3, serve normally to keep said locking dogs in engagement with the ratchet bars 24 and permit the downward movement of the ratchet bars in lowering the crib. Connected to the inner ends of the locking dogs 27 are links 32, said links at their other ends being connected with a vertical operating rod 33, passing through and guided by a slot 34 in the bar 3, and said rod 33 connected with the ends of levers 35, having foot pieces 36, and extending outwardly toward the sides of the crib within convenient reach of the operator upon opposite sides of the crib. The levers 35 are pivotally hung in right angled brackets 37 projecting from and supported by the central bar 3. Mounted to slide upon one of the brackets 37 is a locking plate 38 adapted to engage a hole 39 in the vertical rod 33 when in its elevated position, to lock the dogs 27 in their retracted position. Also secured to and depending from the opposite end rails of the mattress frame 10 and passing through slots 40 in the central bar 3 of the truck or supporting frame 3 are rack-bars 41, and supported upon the cross rails 2 of the truck or supporting frame by means of bearing blocks 42, is a longitudinal shaft 43, having fixed thereon and meshing with the rack bars 41, gears 44, and provided at one end with an operating handle 45. Also mounted upon the shaft 43 adjacent to the operating handle 45, is a spur wheel 46, and pivoted upon the cross rail 2 of the truck is a swinging locking plate 47 adapted to engage said spur wheel to lock the shaft 43 against rotation.

As shown in Fig. 6, the crib is in folded condition with the corner posts 8 of the crib structure depressed or lowered to their fullest extent, and the springs 13 compressed, and when it is desired to set up the crib for use, it is only necessary to lift the posts 16 with their connecting guard rails and raise the side guards 19 until their latches 20 engage the keepers 21 in the posts 16, and the crib will then assume the position as indicated in Fig. 1. Should it be desired to elevate the crib automatically, the latch plate 47 is released from the spur wheel 46, and the foot placed upon one or the other of the foot pieces 36 to depress the lever 35, and through the rod 33 raise the links 32, thus retracting the locking dogs 27 from the ratchet bars 24 and permitting the springs 13 to elevate the crib structure. In order to prevent a too sudden rise of the crib structure under the tension of the springs, the hands of the operator may be placed upon the upper part of the crib and a slight pressure applied thereto. Upon releasing the pressure of the foot, the locking pawls 27 are again forced into engagement with the ratchet bars 24 by the action of their springs 28, and the crib structures stopped and locked at any desired elevation. Should it be desired to lower the crib structure, it is necessary only to apply pressure to the upper part of the crib, the inclined or beveled surfaces of the locking pawls permitting the downward movement of the crib structure without retracting the locking pawls by operating the foot levers, although this may be done if desired. In order to raise and lower the crib independently of the action of the springs 13, the locking pawls 27 are retracted from the ratchet bars 24 by pressure applied to one or the other of the foot levers, and locking them in their

retracted position by forcing the lock-plate 38 into engagement with the hole 39 in the rod 33, thus maintaining the locking pawls in their retracted position. Then by rotating the crank handle 45 the crib structure may be elevated and lowered, and locked at any desired elevation, by shifting the locking plate 47 into engagement with the spur wheel 46. When it is desired to use the crib alongside of an ordinary bed, one of the side guards 19 is lowered, as shown in Fig. 2, by releasing its latches 20, and the crib placed alongside of the bed, and the crib structure adjusted so that its mattress is on a level with the mattress of the bed, thereby making the handling of an infant occupying the crib more convenient than if the side guard were up or the mattress of the crib were not on a level with the mattress of the bed. When the crib is not in use, and it is desired to get it out of the way, it may be folded and lowered to its fullest extent, as shown in Fig. 6, and shoved or rolled under the bed.

I do not wish to be limited to the exact details of construction herein shown and described, as the same may be changed in various particulars, and still be within the scope of the invention.

What I claim is:—

1. A crib, comprising a truck having corner posts, a crib structure having hollow corner posts telescopically mounted upon the corner posts of said truck, coiled springs arranged in said hollow corner posts and engaging the upper ends of the corner posts of said truck, ratchet bars depending from said crib structure, locking dogs mounted upon said truck and engaging said ratchet bars to lock said crib structure and truck together when said springs are under compression, and means for releasing said locking dogs to permit the springs to elevate the crib structure.

2. A crib, comprising a truck having corner posts, connecting rails, and a longitudinal connecting center bar, a crib structure having hollow corner posts telescopically mounted upon the corner posts of the truck, coiled springs arranged in said hollow corner posts and engaging the upper ends of the corner posts of the truck, ratchet bars depending from the crib structure and intersecting the connecting center bar of said truck, sliding locking dogs arranged upon said connecting center bar, means for normally holding said dogs in engagement with the ratchet bars when the springs are compressed, and means for releasing said locking dogs to permit the springs to elevate the crib structure.

3. A crib, comprising a truck having corner posts, connecting rails, and a longitudinal connecting center bar, a crib structure having hollow corner posts telescopically mounted upon the corner posts of the truck, coiled springs arranged in said hollow corner posts and engaging the upper ends of the corner posts of the truck, ratchet bars depending from the crib structure and intersecting the connecting center bar of said truck, sliding locking dogs arranged upon said connecting center bar, means for normally holding said dogs in engagement with the ratchet bars when the springs are compressed, links connecting said locking dogs, an operating rod connected to said links, and a foot lever for moving said operating rod to cause said links to retract said locking dogs to permit said springs to elevate the crib structure.

4. A crib, comprising a truck having corner posts, a crib structure having hollow corner posts telescopically mounted upon the corner posts of the truck, rack-bars depending from said crib structure at opposite ends thereof, a shaft mounted upon said truck adjacent to said depending rack-bars, gear wheels on said shaft engaging said rack-bars, a handle on said shaft for rotating the same to raise or lower the crib structure, and means for locking said shaft against rotation to support the crib structure in any desired adjusted position.

5. A crib, comprising a truck having corner posts, a crib structure having hollow corner posts telescopically mounted upon the corner posts of the truck, rack-bars depending from said crib structure at opposite ends thereof, a shaft mounted upon said truck adjacent to said depending rack-bars, gear wheels on said shaft engaging said rack-bars, a handle on said shaft for rotating the same to raise or lower the crib structure, a spur wheel on said shaft, and a locking plate on said truck adapted to engage said spur wheel to lock said shaft against rotation to support the crib structure in any desired adjusted position.

6. A crib, comprising a truck having corner posts, connecting rails, and a longitudinal central connecting bar, a crib structure having hollow corner posts telescopically mounted upon the corner posts of the truck, coiled springs arranged in said hollow corner posts and engaging the corner posts of the truck, ratchet bars depending from the crib structure and intersecting the central connecting bar of said truck, sliding locking dogs mounted upon said bar, springs for normally holding said locking dogs in engagement with said ratchet bars when the springs are compressed, links connecting said locking dogs, an operating rod connected to said links, a foot lever for moving said operating rod to cause said links to retract said locking dogs to permit the crib structure to be raised, means for lock-

ing the locking dogs in retracted position, rack-bars depending from the crib structure, a shaft mounted upon the truck, gear wheels on said shaft engaging said rack bars, a handle for rotating said shaft to raise and lower the crib structure when the locking dogs are retracted, and means for locking said shaft against rotation to support the crib structure in any desired adjusted position.

In testimony whereof, I have hereunto set my hand this 28th day of May 1912.

JOHN HUDRY.

Witnesses:
JOHN FIERRO,
ANDRO HORENSKY.