

Aug. 15, 1950

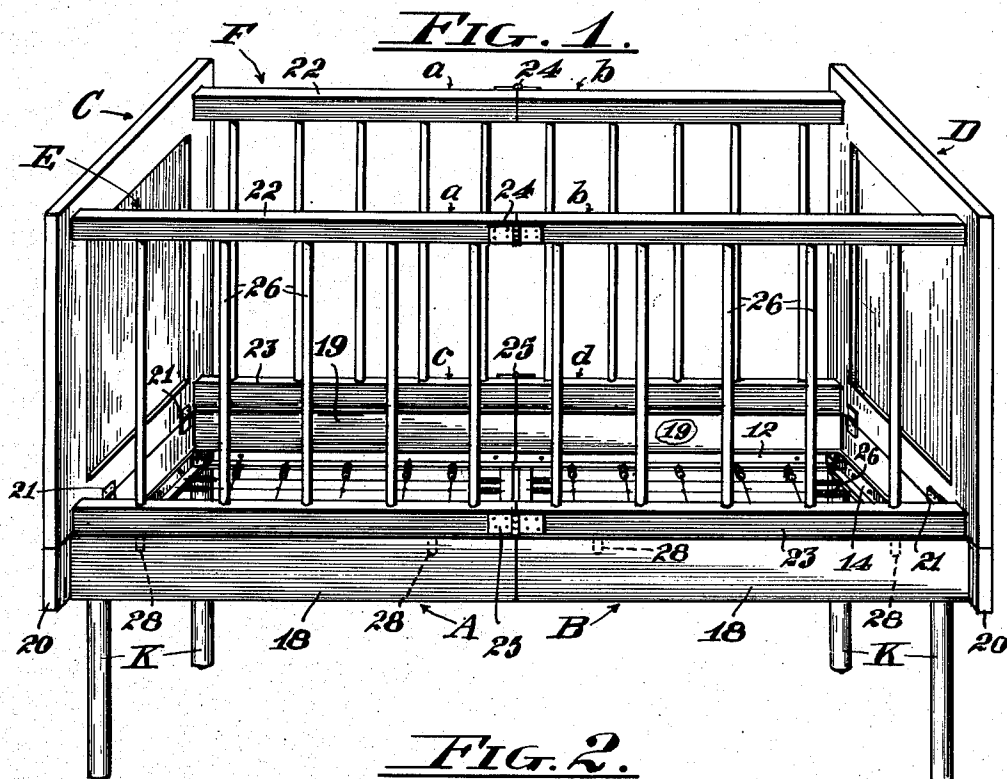
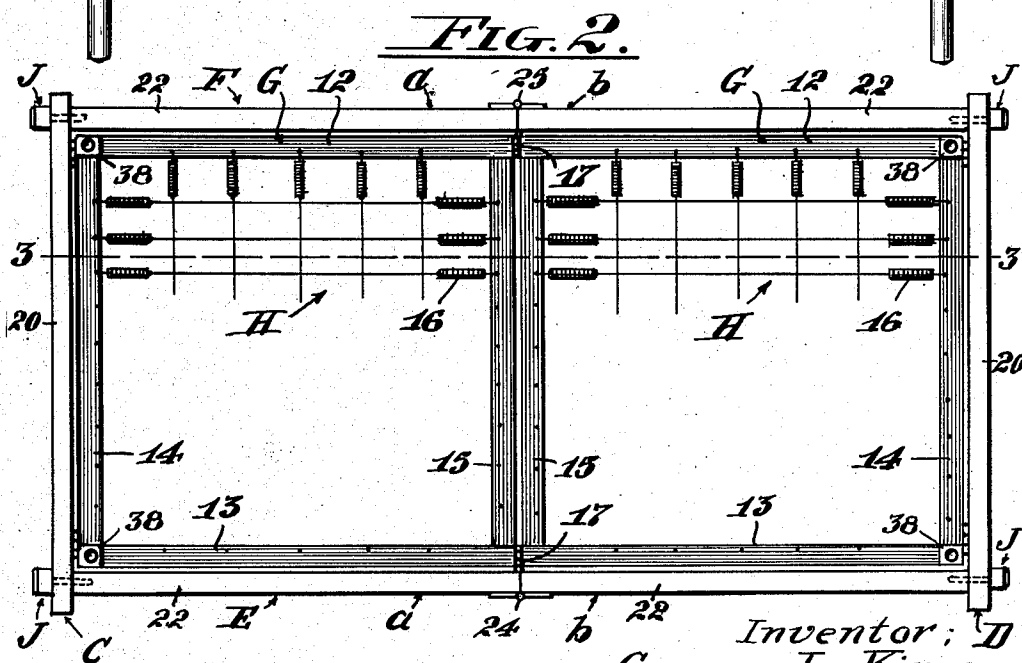
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2,518,904

FOLDABLE BABY CRIB

Filed March 24, 1948

3 Sheets-Sheet 1



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FIG. 6.

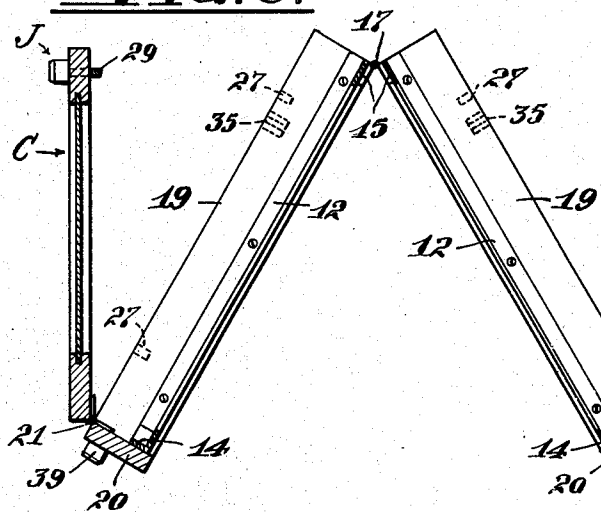


FIG. 7.

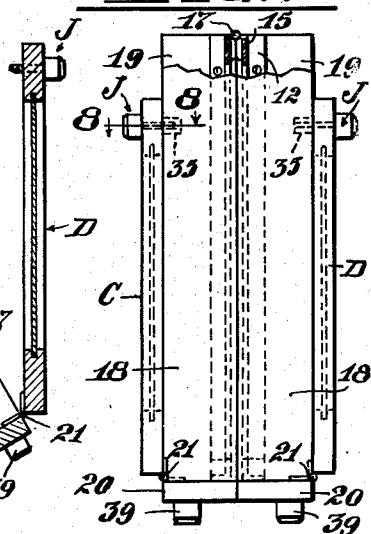


FIG. 9.

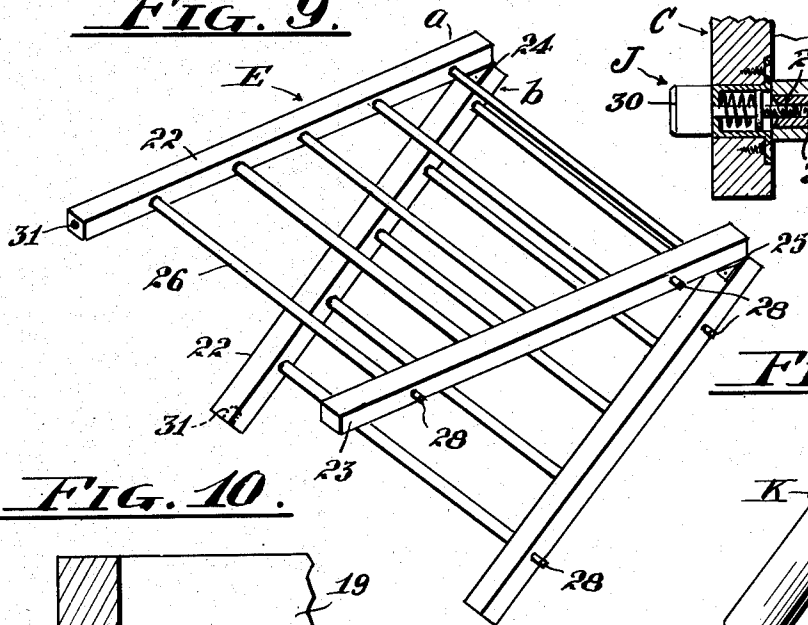


FIG. 8.

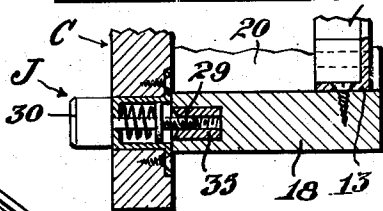


FIG. 10.

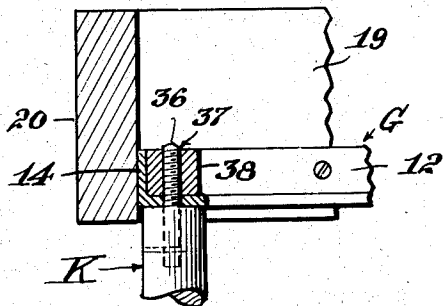
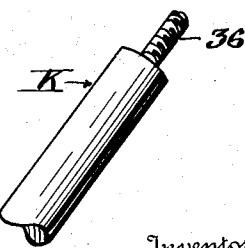


FIG. 11.



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2,518,904

FOLDABLE BABY CRIB

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Application March 24, 1948, Serial No. 16,753

5 Claims. (Cl. 5-99)

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This invention relates to a foldable baby crib and has as its primary object the provision of a crib which is foldable into a compact package whereby it may be readily carried and transported, and which may be easily and quickly assembled or taken down and disposed in its collapsed or folded position.

Another object is to provide a construction and arrangement in the crib whereby when the parts are assembled the structure will be stabilized and the assemblage secured against accidental displacement.

A particular object is to provide a baby crib of the type embodying a foldable bed frame fitted with foldable head and foot frames or panels constituting crib ends in association with the side frames in which means are provided for effecting detachable engagement between the side frames and the bed frame when the latter is disposed in its extended or open position and also for detachably connecting the ends of the side frames with the crib ends in a fashion to impart rigidity and stability to the assembled structure.

A further object is to provide a mode of effecting interconnection between the side frames of the crib and the crib end frames which while affording a convenient and quickly operable mode of effecting connections and disconnections of the separable parts is of such character as to insure against disconnection thereof by the crib's occupant.

A further object is to provide a foldable crib embodying a metallic spring supporting frame, comprising a pair of hingedly connected sections adapted to be disposed end to end in an extended position, and also to be folded into overlying relation to each other, and around and upon which frame sections the superstructure of the crib is mounted whereby said metallic spring carrying frame constitutes the foundation of the crib structure and thereby contributing to the strength and stability of the structure as a whole.

A further object is to provide a foldable baby crib with demountable legs adapted to be readily attached to the crib supporting frame to provide an elevated support for the latter and which is also adapted to be detached from the bed frame when it is desired to dispose the crib structure in its collapsed or folded position.

With the foregoing objects in view, together with such other objects and advantages as may subsequently appear, the invention resides in the parts and in the combination, construction and arrangement of parts hereinafter described and

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claimed, and illustrated by way of example in the accompanying drawing, in which:

Fig. 1 is a perspective view of the crib showing it in its assembled position.

Fig. 2 is a plan view thereof.

Fig. 3 is an enlarged vertical section, taken on the line 3-3 of Fig. 2.

Fig. 4 is an enlarged horizontal section, taken on the line 4-4 of Fig. 3, showing the manner of effecting detachable connection between the ends of the upper rails of the side frames of the crib and the crib ends.

Fig. 5 is a detail in cross section, taken on the line 5-5 of Fig. 3, showing the manner of effecting detachable connection between the bottom rails of the side frames of the crib with the side rails of the crib bed frame.

Fig. 6 is a view in longitudinal section of the foldable bed frame with its associated end frames showing the parts in a partly folded condition.

Fig. 7 is an end elevational view showing the crib in its folded position.

Fig. 8 is a detail horizontal section taken on the line 8-8 of Fig. 7, showing the manner of effecting detachable interengagement between the foldable crib ends and the bed frame when the parts are in their folded position.

Fig. 9 is a perspective view of one of the side frames of the crib showing it in a partly folded position.

Fig. 10 is an enlarged detail in section taken on the line 10-10 of Fig. 3 showing the manner of attaching the demountable legs on the bed spring frame, and

Fig. 11 is a detail in perspective illustrating the mounting end portion of one of the crib legs.

Referring to the drawings more specifically A and B indicate generally the foldable sections of the bed frame of the crib, C and D designate the crib end frames or panels, and E and F denote the side frames of the crib. Each of the bed frames A and B embodies a rectangular metallic frame G, each of which comprises opposed side rails 12-13 and an outer end rail 14, connected to the side rails, each of which rails are formed of angle iron; the frames G each also including a flat inner rail 15 connected to the inner ends of the side rails 12-13. The frames G are each equipped with a conventional mattress supporting fabrication H embodying springs 16. The frames G are connected together at their inner margins by hinges 17 and are thus adapted to be disposed either in longitudinal end to end alignment or to be folded on their hinged connection to overlap each other.

A feature of the invention resides in utilizing the metallic spring supporting frames G as a foundation for the crib structure, which latter is built around and supported by the frames G. To this end, wood side rails 18 and 19 are affixed to the side rails 13 and 12, and end rails 20 are attached to the outer rails 14 and to the outer ends of the wood rails 18 and 19. The adjacent ends of the rails 18—18 and 19—19 of the bed frame sections A—B are adapted to abut each other when the frames G—G are in their extended position, which abutments serve to limit the relative swinging movement of the frames G—G on the hinges 17 in one direction.

Connected to the end rails 20 of the bed frame are the end frames or panels C and D which are attached to the rails 20 by hinges 21 so that the crib ends may be disposed either in an upward position relative to the rails 20 or swung inwardly toward each other to a folded position overlying the bed frame sections A and B.

The side frames E and F each embodies top and bottom rails 22 and 23 respectively, preferably but not necessarily formed of sections *a* and *b*, and *c* and *d*, with the sections *a* and *b* united by hinges 24 and the sections *c* and *d* united by hinges 25 so that the side frames may be folded intermediate their ends as indicated in Fig. 9, and thus brought into overlying relation to each other. The rails 22 and 23 of the side frames E and F are united by slats 26 or in any other conventional fashion common in the construction of the side frames of baby cribs.

An important feature of the invention resides in the mode of effecting detachable engagement between the side frames E—F and the side rails of the bed frame sections A and B and also with the end frames C and D, when disposing the parts in their assembled position, so as to produce a strong stable assembled structure. As a means of effecting detachable interconnection between the bottom rails 23 of the frames E and F and the rails 18—18, and 19—19 of the bed frames, the rails 18—18 and 19—19 are provided with sockets 27 and the rails 23 are provided with downwardly projecting pins 28 arranged for detachable interengagement with the sockets 27 as particularly shown in Fig. 5.

The frames E and F are formed of a length such that the ends thereof will abut the inner faces of the crib ends C and D when the latter are disposed in their upright position perpendicular to the bed frame sections A—B as shown in Figs. 1 and 2, and as a means for effecting interconnection between the ends of the top rails 22 and the crib ends C—D the latter are fitted with screws J each of which embodies a shank 29 carried on a head 30 with the shank extending through the crib end with the head 30 disposed on the outer side of the crib end. The shank 29 is formed to project from the inner face of the crib end and is threaded for screw engagement with an internally threaded socket 31 mounted in the end of the rail 22 as particularly shown in Fig. 4. The shank 29 is carried in a bearing 32 mounted on the crib end and is normally urged to its advanced position by a spring 33 wound around the stem 29 and exerting a thrust between the outer end of the bearing 32 and a flange 34 fixed on the stem 29. The screws J are thus retractable in opposition to the springs 33. The screws J are also utilized as a means for fastening the crib ends C and D in their folded position against the bed frame sections A—B as shown in Figs. 7 and 8; the bed frame rails 18

and 19 being fitted with internally threaded sockets 35 positioned to receive and be engaged by the threaded shanks 29 of the screws J as shown in Fig. 8 when the crib ends C and D abut the rails 18 and 19.

The crib is equipped at each of the corner portions thereof with detachable legs K, each of which is provided with a threaded stem 36 protruding axially from an end thereof, which stem is detachably engageable with an internally threaded socket 37 in a nut 38 affixed to the outer corner of each of the frames G as particularly shown in Fig. 10.

In the operation of the invention in setting up the crib the bed frame sections A and B are disposed in longitudinal alignment with each other and the crib ends C and D are swung to their upright position whereupon the side rails E and F in their extended positions are seated on the side rails 18—18 and 19—19 of the bed frame with the pins 28 engaging the sockets 27. The crib ends C and D may be sprung outwardly sufficiently to permit the shanks 29 of the screws J to pass the ends of the rails 22 to position the outer ends of the threaded shanks 29 of the screws for entrance into the sockets 31, or the screws may be retracted by exerting a pull on the heads 30 so that the threaded shanks 29 will clear the ends of the rails 22. In either event, on a threaded shank 29 being positioned in the outer end of a socket 31 it is manipulated by rotating the head 30 to cause the threaded shank 29 to advance into the socket 31 into screw engagement therewith. The screws are thus manipulated so as to tightly clamp the ends C and D against the ends of the rails 22. When this is effected the superstructure of the crib composed of the crib ends C and D and the side frames E and F will be rigidly supported on the bed frame sections A and B. The pins 28 engaging the sockets 27 afford a substantial interconnection between the side rails E and F and the bed frame, while the screws J afford a substantial connection between the outer ends of the side rails and the crib ends. The several parts are thus assembled in close abutting relation thereby thoroughly stabilizing the structure.

When it is decided to elevate the crib from the floor the legs K are applied to the frames G by screwing the threaded stems 36 on the legs into the sockets 37 so that the upper ends of the legs will abut the under side of the frames G. A strong and rigid interconnection is thus effected between the legs and the crib.

When it is desired to fold the crib into a compact package the legs K are removed from the bed frame sections, the side rails E and F are detached by unscrewing the screws J from the engagement with side rails 22 and then lifting the side rails free of the bed frame in which operation the pins 28 are withdrawn from the sockets 27. The sections of the side rails may then be folded to overlie each other as indicated in Fig. 9. When so folded the side frames E and F may be positioned to overlie one of the bed frame sections which may be provided with cushions or mattresses. The crib ends C and D are then folded inwardly and engaged with the rails 18—18 and 19—19 of the bed frame sections A—B in overlying relation to bedding or cushions and the side rails E—F imposed on the bed sections A and B. The detached legs K may also be housed beneath the folded crib ends.

The bed frame sections A and B may then be folded into abutting relation with each other on

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the hinges 17 connecting the frames G. The parts will then be disposed as shown in Fig. 7. When thus folded the crib may be disposed with the end rails 20 of the bed frame sections A and B presented forwardly and with the inner end portions of the bed frame sections presented upwardly thus forming inclosures on opposite sides of the folded bed spring frame in which the side rails E and F and the legs K together with bedding may be confined.

As a means for facilitating standing of the folded structure in an upright position, short legs or knobs 39 are mounted on the outer faces of the outer end portions of the bed frame end rails 20.

Manifestly when the crib is in its folded position it will form a compact package which is capable of being readily transported from place to place; the crib being highly suitable for use by travelers, and particularly those traveling in automobiles and those living in auto courts, hotels, small apartments, auto trailers, and the like, where either baby cribs are not supplied or where space is limited.

While I have shown and described a specific embodiment of my invention I do not limit myself to the exact details of construction set forth, and the invention embraces such changes, modifications and equivalents of the parts and their formation and arrangement as come within the purview of the appended claims.

I claim:

1. In a foldable baby crib, a bed frame comprising a pair of sections hingedly connected together for positioning either in end to end alignment or in folded overlying relation to each other, crib ends hinged on the outer ends of said bed frame sections for positioning either in overlying relation to said sections or perpendicular thereto, a pair of detachable side frame sections including top rails and bottom rails, means for interengaging the bottom rails with the sides of the bed frame, and means for releasably fastening the ends of the top rails of said side frames to said crib ends.

2. In a foldable baby crib, a bed frame comprising a pair of sections hingedly connected together for positioning either in end to end alignment or in folded overlying relation to each other, crib ends hinged on the outer ends of said bed frame sections for positioning either in overlying relation to said sections or perpendicular thereto, a pair of detachable side frame sections including top rails and bottom rails, means for interengaging the bottom rails with the sides of the bed frame, an internally threaded socket in each end of said top rails, and screws carried by said crib ends for releasable threaded engagement with said sockets.

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3. In a foldable baby crib, a bed frame comprising a pair of sections hingedly connected together for positioning either in end to end alignment or in folded overlying relation to each other, crib ends hinged on the outer ends of said bed frame sections for positioning either in overlying relation to said sections or perpendicular thereto, a pair of detachable side frame sections including top rails and bottom rails, means for interengaging the bottom rails with the sides of the bed frame, an internally threaded socket in each end of said top rails, screws carried by said crib ends for releasable threaded engagement with said sockets, and threaded sockets carried by said bed frames engageable by said screws when the crib ends are positioned in overlying relation to the bed frame sections.

4. In a foldable baby crib, a pair of rectangular spring carrying frames, hinges connecting said frames together on which the frames may be swung into end to end relation or folded to overlie each other, bed frame side and end rails fixed to and carried by the side and end rails of said spring carrying frames, crib ends hinged to said end rails for positioning either perpendicular thereto or in overlying relation to said side rails, a pair of crib side frames adapted to be seated on said bed frame side rails when in their extended position and to be abutted at their ends by said crib ends when in their perpendicular position, means for detachably connecting said side rails to the bed frame rails, and means for clamping the crib ends into engagement with the ends of said side frame.

5. In a foldable baby crib having a foldable bed frame embodying a pair of frame sections hinged together at their inner ends, and crib ends hinged on the outer ends thereof; a pair of side frames adapted to seat on said bed frame sections when in an extended position, said side frames having ends against which said crib ends may abut, and retractable screws carried by said crib ends detachably engageable with said side frames.

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