G. R. HAYNES.

FOLDING CHILD'S BED.

APPLICATION FILED MAY 21, 1920.

1,402,767.

Patented Jan. 10, 1922.

2 SHEETS—SHEET 1.

Fig. 1.

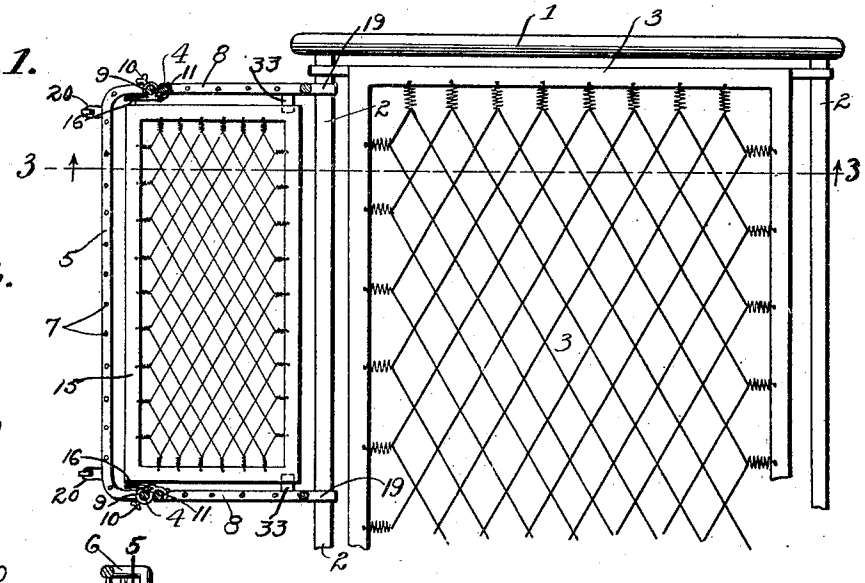


Fig. 2.

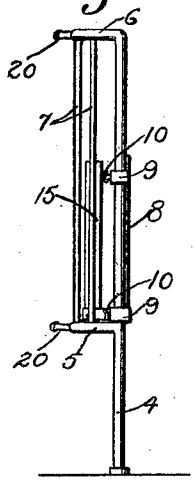


Fig. 3.

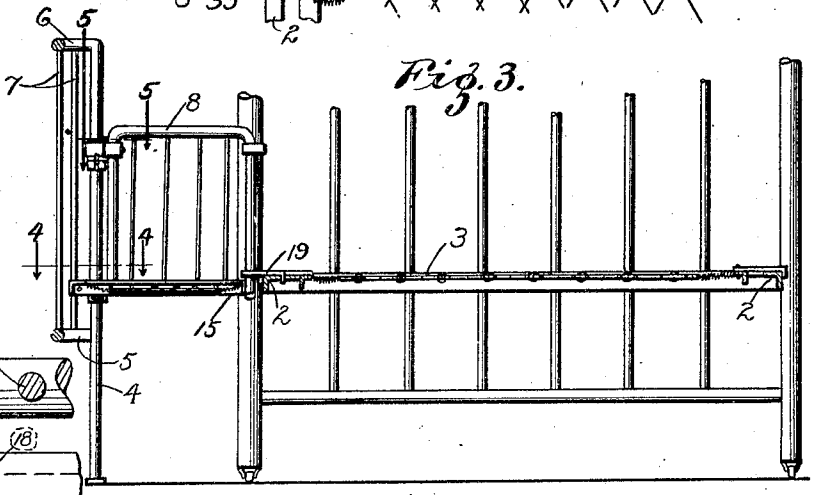
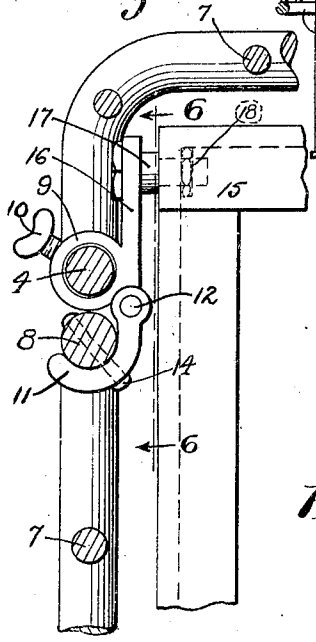


Fig. 4.



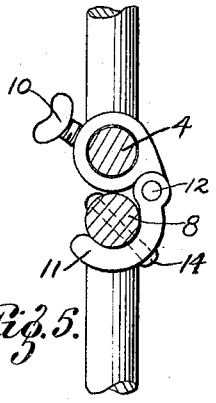


Fig. 5.

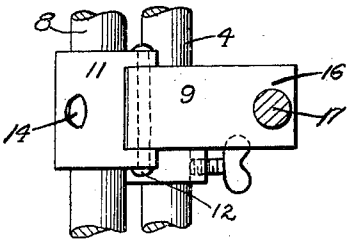


Fig. 6.

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2 SHEETS—SHEET 2.

Fig. 7.

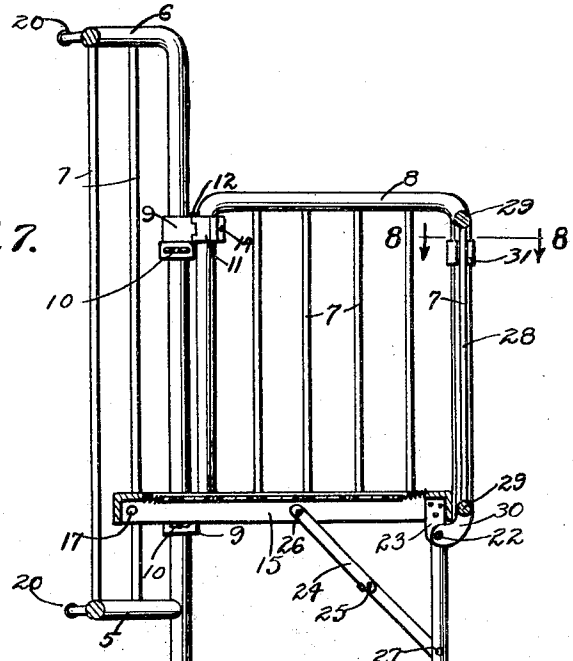


Fig. 8.

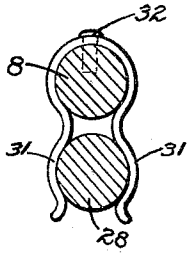
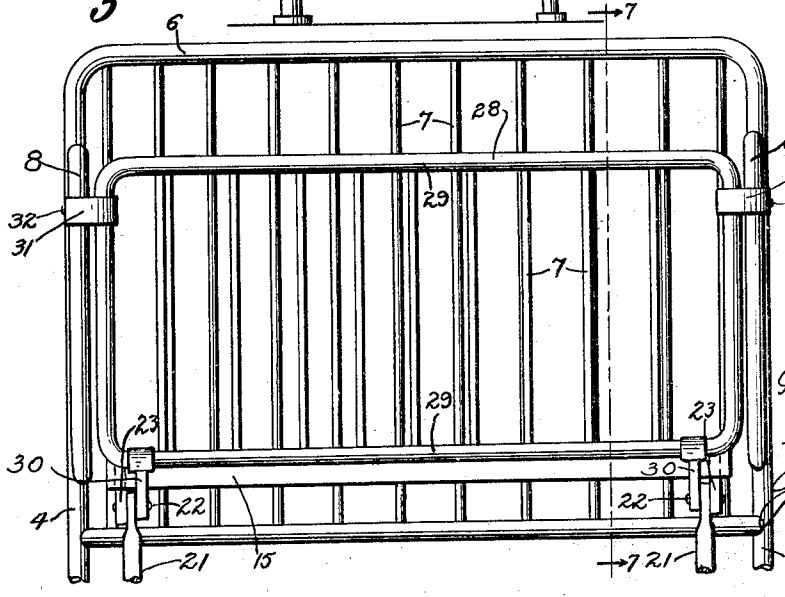


Fig. 9.



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UNITED STATES PATENT OFFICE.

GUY R. HAYNES, OF ST. LOUIS, MISSOURI, ASSIGNOR OF ONE-THIRD TO ANTHONY HENKE AND ONE-THIRD TO HARRY F. RENZENBRINK, BOTH OF ST. LOUIS, MISSOURI.

FOLDING CHILD'S BED.

1,402,767. Specification of Letters Patent. **Patented Jan. 10, 1922.**

Application filed May 21, 1920. Serial No. 383,155.

To all whom it may concern:

Be it known that I, GUY R. HAYNES, a citizen of the United States, residing at St. Louis, State of Missouri, have invented certain new and useful Improvements in Folding Children's Beds, of which the following is a specification containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to an improved folding child's bed, and it consists in the novel construction and combination of parts that is hereinafter particularly described and distinctly claimed.

The object of my invention is to provide an improved separate folding-bed, especially adapted for infants at the nursing age, but which bed may be made of suitable size to adapt it for use of children of considerable age; and which bed shall be capable of attachment of its open side to the side-rail of the parent's bed, whereby there will be no obstruction on that side to interfere with the free handling of the infant by the parent occupying the said parent's bed; and which child's bed may be quickly detached from the parent's bed after use, and folded into a very small and compact bundle, and be packed away, or placed beneath the parent's bed, until again required for use.

In the drawings,

Fig. 1 is a top plan-view of my child's bed, partly in section, unfolded and attached to the parent's bed, ready for use, the foot-portion of said parent's bed being broken away to economize in drafting space.

Fig. 2 is an end-elevation of the child's bed, detached from the parent's bed, folded, and ready to be packed away or be used as a trundle-bed beneath the parent's bed.

Fig. 3 is a vertical cross-section, taken through the child's and the parent's beds, on the line 3—3 of Fig. 1.

Fig. 4 is an enlarged detail fragmentary section, taken on the line 4—4 of Fig. 3.

Fig. 5 is a detail sectional plan-view of the upper hinge, which connects the folding ends of the child's bed to the back section of same.

Fig. 6 is a detail side-elevation of the lower hinge, the section being taken on the line 6—6 of Fig. 4.

Fig. 7 shows a modified form of the child's bed, with independent supports, the section being taken on the line 7—7 of Fig. 9, and the view being a sectional end-elevation of the bed in a position set up, ready for use.

Fig. 8 is a detail horizontal section, taken through the adjacent vertical bars of the folding end-section and folding side-section of the modified form, the section being taken on the line 8—8 of Fig. 7, and

Fig. 9 is a side-elevation of the modified form of the child's bed, assembled for use, the legs being broken away.

The numeral 1 designates the head-section of any common bedstead; 2 the side-rails thereof, and 3 the usual wire or other form of bed-spring.

In carrying out my invention, I provide a child's bed with a main side-section, composed of two end posts that reach to the floor, to support one side of said bed; said posts being designated by the numeral 4; bottom side-rail 5; top side-rail 6; suitable vertical rods 7 connecting said bottom and top side-rails to guard the child, and prevent it from crawling out of the bed; folding end-sections 8, whose vertical frame-bars are hinged to and vertically adjustable upon the adjacent end-posts 4; suitable hinges having one of their leaves 9 encircling said end-posts and adjustable vertically thereon; suitable thumb-screws (or other common set-screws) 10 for adjustably fastening said leaves to said posts; opposite hinge-leaves 11 pivoted to said leaves 9 by means of pintles 12, and fixed securely to the said vertical frame-bars of said folding end-sections 8 by means of rivets or other fastenings 14; and a suitable bed-spring frame 15 that has its outer edge pivoted to a horizontal extension 16 of the said hinge-leaves 9 by means of pintles 17 and nuts 18. See Figs. 4, 5 and 6. Said bottom side-rail 5, and top side-rail 6 have their ends curved at a right angle and extend inwardly a considerable distance to provide space so that when the child's bed is folded up, said bed spring-frame 15 will fold up in a vertical position in said space. See Fig. 2.

When the child's bed is to be used, the parts thereof are unfolded, as shown in Figs. 1 and 3, the said end-sections 8 being extended and located at right-angles to the side-rails of the parent's bed, and detachably secured thereto by means of hooks 19, one end of which is perforated and mounted loosely on the adjacent vertical frame-bars

of said folding end-sections 8, while the opposite end of said hooks is bent downwardly and passed over and inside of the adjacent side-rail 2 of said parent's bed, thereby supporting the child's bed-spring frame 15 at about the same height from the floor as that occupied by the said bed-spring 3 of said parent's bed. See Figs. 1 and 3.

When the child's bed is not in use, it should be folded, to the position shown in Fig. 2, wherein the bed-spring frame 15 thereof is turned upon its pintles 17 to occupy a vertical position, out of the way and parallel with the vertical side-rail rods 7; and the said end-sections 8 are folded toward each other, out of the way and parallel with the said bed-spring frame 15, which had previously been folded in the manner above stated.

If desired to use the folded child's bed as a trundle bed, its bottom and top side-rails 5 and 6 should be fitted with common castors 20, as shown in Figs. 1, 2 and 3, and then be laid upon said castors and run under the parent's bed, where it will be out of the way, as well as almost out of sight, until it is to be again used as a bed for an infant or child.

The modified construction.

When it is desired to use the child's bed independently of the parent's bed, I provide the inner edge of the child's bed-spring frame 15 with suitable extra folding legs 21, for supporting that edge of the said frame, said legs being pivoted at 22 to brackets 23 riveted or otherwise fixed to said frame, and adapted to be folded inwardly to a position parallel with and adjacent to the said frame 15, after the latter has been folded to a vertical position.

A common toggle-brace 24 is provided with the usual two sections pivotally connected at about the center of the length of said brace by means of a rivet or screw 25, and one end of said brace is pivoted at 26 to the said bed frame 15, while the opposite end of said brace is pivoted at 27 to the adjacent folding leg 21 at a point some distance below the said pivotal-point 22 of said leg, so that the said toggle-brace will (when extended) be located obliquely, as shown in Fig. 7, and act as a very efficient brace for said leg.

There is a leg 21, and a duplicate of the above construction, at both ends of the child's bed frame 15, in the present form of my modified construction.

A folding-gate or guard 28, to prevent the infant or child from escaping from the bed at the side which is opposite the said main side-section, is composed of a rectangular frame 29 carrying suitable vertical bars or rods 7, and has brackets 30 fixed to its lower edge and pivoted to the said brackets 23 by the same pivoting-means 22 which are used to hingedly secure the upper ends of said folding legs 21 to the said folding bed-frame 15, whereby the said folding-gate may be swung to occupy the position which it occupies in Figs. 7 and 9, or be swung downwardly and inwardly, upon and against the said legs 21, after they have been folded in the manner above described.

To detachably hold the said folding-gate 28 in position for use as a gate, as shown in Figs. 7 and 9, I have provided suitable fastening-devices, which may be in the form of spring clips that are U-shaped in plan-view, as shown in detail in Fig. 8.

Said spring clips are composed of a strip of spring-metal having parallel clamping-arms 31, which engage on opposite sides of the said gate-frame 29 adjacent their free ends, while their opposite ends are fixed to the said vertical bars of the previously-described swinging or folding end-sections 8, so that when the latter are swung into the using position (which is that shown in Figs. 7 and 9) the said spring clamping arms 31 will engage the adjacent vertical bars of the said gate-frame 29, and detachably hold said frame in position for use as a gate frame.

Rivets or other fastenings 32 are used to fasten the said spring-clips to the vertical bars of the said folding end-sections 8 of the bed. Lugs 33 are mounted upon said folding end-sections 8 to support said bed spring-frame 15 when same is in an unfolded position. See Fig. 1.

The operation and manner of using my invention will be readily understood from the above description.

I claim:—

An improved folding child's bed composed of a main side-section having fixed legs which extend to the floor; folding end-sections hinged to and adjustable vertically upon the main side-section; hinges having one of their leaves encircling said end-posts and provided with a horizontal extension; suitable thumb-screws for adjustably fastening said leaves to said end-posts; a bed spring-frame having its outer edges pivotally connected to the said horizontal extension and adjustable for height simultaneously with said end-sections; opposite hinge-leaves having securely fastened thereto said folding end-sections; and supporting-means mounted upon said end-sections to hold the free edge of said bed spring-frame in a horizontal position when said frame is in use.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

GUY R. HAYNES.

Witnesses:
FRANCES E. MORRIS,
JOHN C. HIGDON.