

J. W. FULLER.
BED.
APPLICATION FILED MAY 20, 1909.

933,971.

Patented Sept. 14, 1909.

2 SHEETS—SHEET 1.

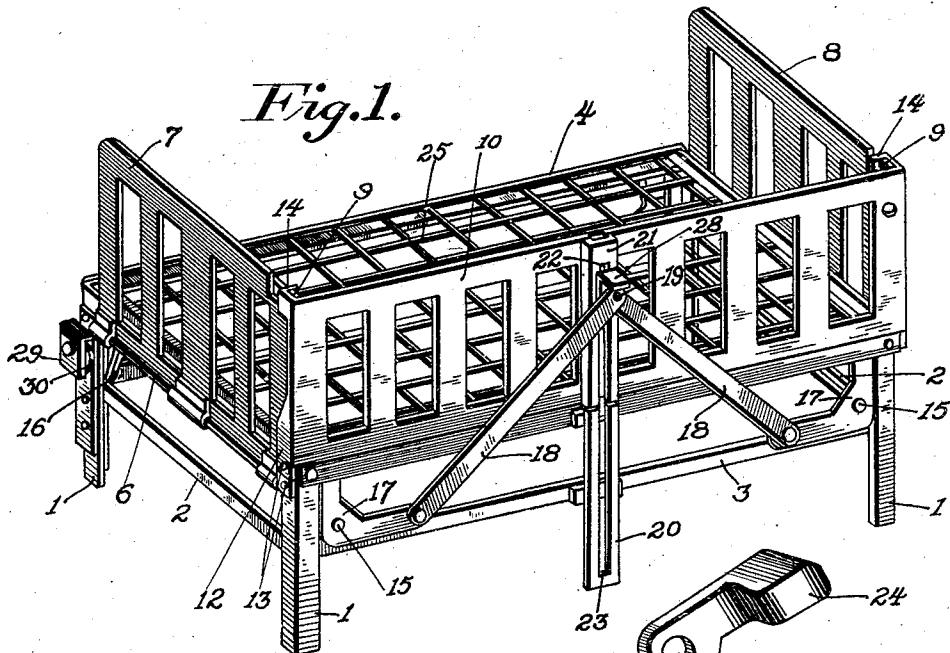


Fig. 8.

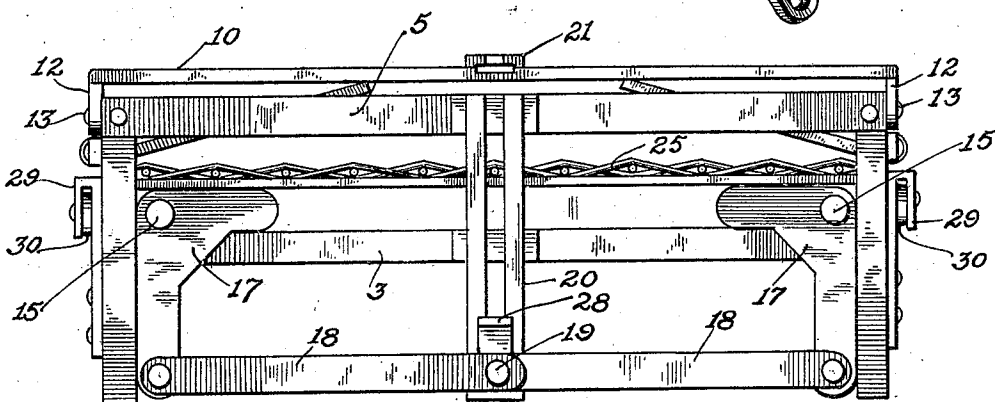


Fig. 2.

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2 SHEETS—SHEET 2.

Fig. 3.

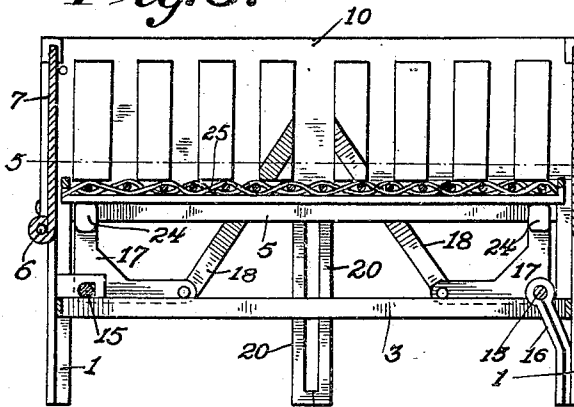


Fig. 4.

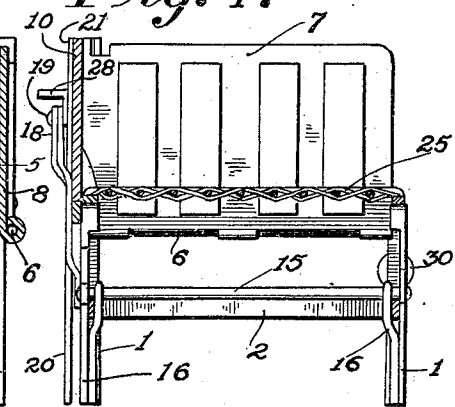


Fig. 5.

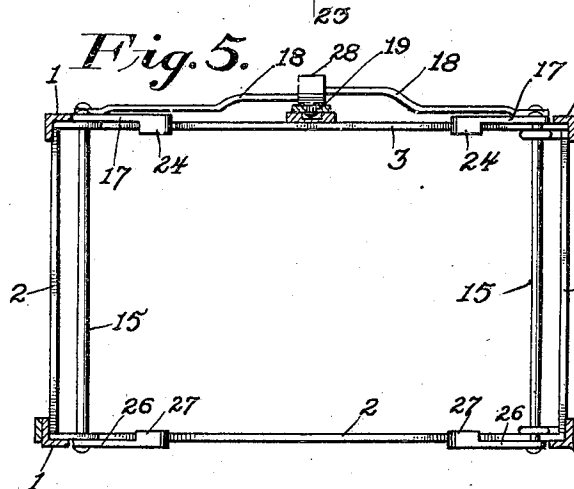


Fig. 6.

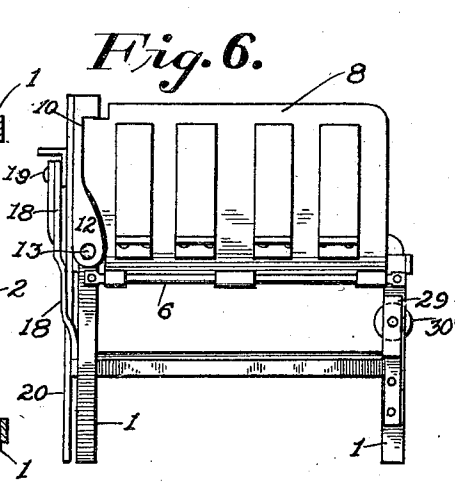


Fig. 7.

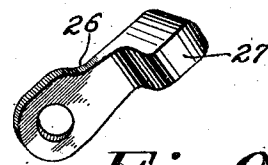
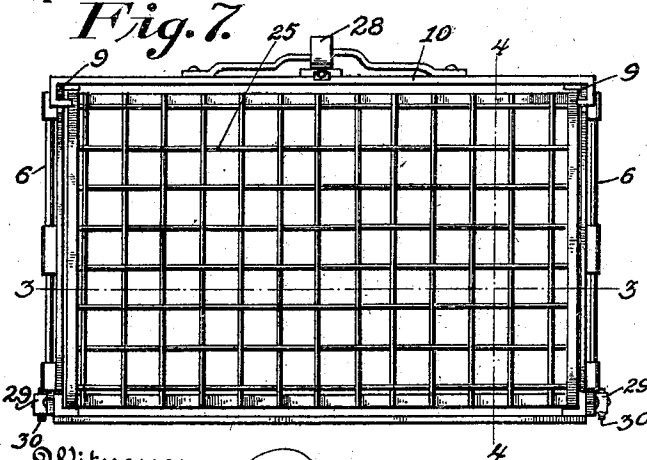


Fig. 9.

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UNITED STATES PATENT OFFICE.

JESSE W. FULLER, OF LITTLE ROCK, ARKANSAS.

BED.

933,971.

Specification of Letters Patent. Patented Sept. 14, 1909.

Application filed May 20, 1909. Serial No. 497,217.

To all whom it may concern:

Be it known that I, JESSE W. FULLER, a citizen of the United States, residing at Little Rock, in the county of Pulaski and State of Arkansas, have invented certain new and useful Improvements in Beds, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to children's beds or cribs, and the principal object of the same is to provide the bed with a foldable side and ends so as to permit the same to be placed beneath a large bed when not in use, and also to provide the same with means whereby the mattress thereof may be raised when the bed is to be in use so that it may be on a level with a mattress of a large bed, thereby facilitating the necessary attention to the occupant of the crib or bed.

It will be understood, of course, that the essential features of the invention are necessarily susceptible of changes in details and structural arrangements, one preferred and practical embodiment of which is shown in the accompanying drawings, wherein—

Figure 1 is a perspective view of the improved bed ready for occupancy. Fig. 2 is a rear elevation of the same, the ends and one side being folded. Fig. 3 is a longitudinal sectional view taken on the line 3—3, Fig. 7. Fig. 4 is a transverse sectional view taken on the line 4—4, Fig. 7. Fig. 5 is a horizontal longitudinal sectional view taken on the line 5—5, Fig. 3, the mattress being removed. Fig. 6 is an end view. Fig. 7 is a top plan view. Figs. 8 and 9 are detail perspective views of the levers for lifting the mattress.

Referring to said drawings it will be observed that the improved child's bed is composed of a substantially rectangularly shaped frame having the vertically arranged corner legs or standards 1 and transverse and longitudinal connecting bars 2 and 3. The legs are preferably formed of angle iron and are arranged in pairs at each corner of the frame. Front and rear bars 4 and 5 connect the tops of the corner legs, forming front and rear side guards. A shaft 6 is extended across each end of the frame and supported by the said legs, said shafts each having mounted on them the foldable end guards or railings 7 and 8, respectively. Said end guards extend well above the front and rear bars 4 and 5, and at their rear upper corners are

provided with a latching lug 9, the function of which will presently appear. A guard rail 10 extends longitudinally of the rear of the frame, said rail 10 being of substantially the same height as the end rails 7 and 8, and at its lower corners being provided with angular pivot ears 12 for engagement with pivot pins 13 carried by the upper ends of the corner legs at the rear of the frame. The upper corners of said rail 10 are each provided with an inturned loop or keeper 14 with which the latching lug 8 of each end rail engages when the end and side rails are raised as is shown more clearly in Fig. 1 of the accompanying drawings.

Rocker shafts 15 extend across each end of the frame, said shafts being mounted in bearings 16 projecting from the legs 1, and each have a bell crank lever 17 mounted on their rear ends, one arm of said bell crank lever having its end in pivotal engagement with an inwardly projecting toggle lever 18. Said toggle levers 18 meet at the center of the rear of the frame and have their meeting ends mounted on a pivot pin 19 which projects through a guideway 20 arranged vertically on the rear side of the frame, and which aligns with a similar guideway 21 vertically arranged on the rear of the rail 10, said guideway 21 having its upper end closed to form an abutment 22 for limiting the upward movement of the pin 19 therein, and the guideway 20 is similarly closed at its lower end to form an abutment 23 for limiting the downward movement of said pin. Preferably each guideway is formed of a single piece of metal, which is bifurcated so as to provide the central guideway therein. The other arms of said bell crank levers are each provided with a laterally projecting lug 24 which rests upon the longitudinal connecting bars 3 of the frame when in a lower position and when in their raised position, elevate a mattress 25, as will presently appear. The front ends of said rocker shafts 15 each have mounted thereon a lifting lever 26 the free end of which is thickened and flattened to form a laterally projecting lug 27 which elevates said mattress 25 when rocked in one direction, and when in the other position, rests on the front connecting bar 2. A handle 28 is mounted upon the pivot pin 19, to facilitate the operation of the toggle levers 18.

In practical operation, assuming the bed

to be in the folded condition shown in Fig. 2, the rear rail is raised to cause its guide way to aline with the guideway at the rear of the frame, and the end rails are then raised and their latching lugs engaged with the loops or keepers of said rear rail. By means of the handle 28, the toggle levers 18 are raised and guided by said alined guideways, to cause the bell crank levers to rock and also the shafts 15 to turn, thereby bringing the lugs 24 of the bell crank levers and lugs 27 of the lifting levers 26 in contact with the corners of the mattress 25 to elevate the said mattress so as to bring the same on a level, or substantially on a level with an adult's bed. A reversal of the operation of the toggle levers will lower said mattress, after which the end and rear rails may be lowered onto the mattress, so as to minimize space and, if desired, permit the bed to be stored beneath the large bed.

It will be seen from the foregoing that the present invention permits of the bed being drawn up close to an adult's bed so that the necessary attention can be given to a child without the occupant of the adult's bed leaving the same. And it will also be seen that through the described mattress-raising mechanism, the same mattress may be readily raised and retained in such position.

Preferably the bed is of metal, and the side and end rails are of the grating or barred type to assure of the proper circulation of air.

The corner legs at the front of the frame are preferably provided with a housing 29 in which a buffer roller 30 is mounted which projects beyond said legs and frame. Said rollers may be of yielding material and serve to prevent scratching or otherwise marring a bed or the like with which they are brought into contact.

What I claim as my invention is:—

1. A bed comprising a frame, a mattress therefor, shafts mounted in said frame, lifting levers carried by said shafts for supporting said mattress and also raising or lowering the same, and toggle levers for operating said shafts.

2. A bed comprising a frame, a mattress therefor, mattress-supporting levers carried by said frame, and toggle levers for operating said supporting levers to raise or lower said mattress.

3. A bed comprising a frame provided with a guideway, shafts mounted in said frame, mattress-supporting levers mounted on said shafts, toggle levers for operating said shafts, a pivot pin connecting said toggle levers, and a handle mounted on said pivotal pin to slide the same in said guideway and thereby cause the toggle levers to rock the mattress supporting levers to raise or lower the mattress.

4. A bed comprising a frame, a mattress

therefor, shafts mounted in said frame, a rear guard rail for said frame provided with a guideway, a guideway carried by said frame which alines with the guideway of the rail, mattress-supporting levers carried by said shafts, and toggle levers guided by said guideways for operating said mattress-supporting levers to raise or lower the mattress.

5. A bed comprising a frame, a mattress therefor, shafts mounted in said frame, mattress-supporting levers mounted on said shafts, a pivotally mounted guard rail carried by said frame and provided with a guideway, a second guideway carried by the frame and alining with the guideway of the rail, and toggle levers guided by said alined guideways for operating said supporting levers to raise or lower said mattress.

6. A bed comprising a frame, end rails therefor each provided with an upstanding lug, and a side rail provided with corner loops with which the lugs of the end rails engage.

7. A bed comprising a frame, a guard rail pivotally mounted to each end thereof and provided with a corner lug, a side rail pivoted to said frame and provided with corner loops with which said lugs engage when said rails are in an upright position.

8. A bed comprising a frame, shafts extending through the ends thereof, bell crank levers mounted on one of the ends of said shafts, lifting levers mounted on the other ends of said shafts, a mattress supported by said levers, shafts for rocking said levers to raise or lower said mattress, and slidably mounted levers for operating said shafts.

9. A bed comprising a frame, end shafts therefor, lifting levers mounted on one end of said shafts and provided with outstanding lugs, bell crank levers mounted on the other ends of said shafts, toggle levers for operating the bell crank levers to cause the same and the lifting levers to be rocked on their shafts, and a mattress supported by the bell crank and lifting levers.

10. A bed comprising a frame, end shafts therefor, lifting levers mounted on one end of said shafts and provided with outstanding lugs, bell crank levers mounted on the other ends of said shafts and also provided with outstanding lugs, toggle levers connected to said bell crank levers, a handle for operating said toggle levers to rock the bell crank levers and the lifting levers, and a mattress supported by the lugs of the bell crank and lifting levers.

11. A bed comprising a frame, a mattress therefor, shafts mounted in said frame, mattress supporting means carried by said shafts, a guard rail carried by said frame and provided with a guideway, a second guideway carried by the frame and alining with the guideway of the rail, and levers guided by said guideway for operating said

shafts to raise or lower the mattress supporting means.

12. A bed comprising a frame, a mattress therefor, shafts carried by said frame, a guard rail pivoted to said frame, a guideway carried by said rail, a second guideway carried by said frame and alining with the guideway of the rail, levers slidably mounted in said guideway for rocking said shafts,

and means carried by said shafts for supporting said mattress. 10

In testimony whereof I hereunto affix my signature in presence of two witnesses.

JESSE W. FULLER.

Witnesses:

O. C. LUDWIG,

G. W. HENDRICKS.