

(No Model.)

O. G. FRANKS.
BED.

No. 491,244.

Patented Feb. 7, 1893.

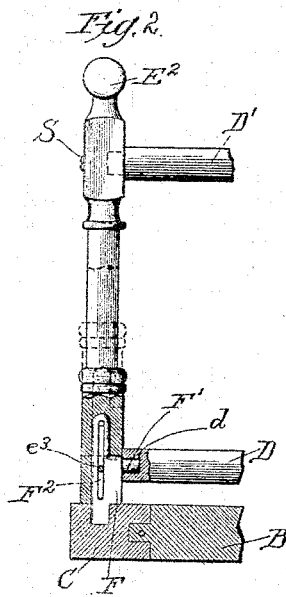
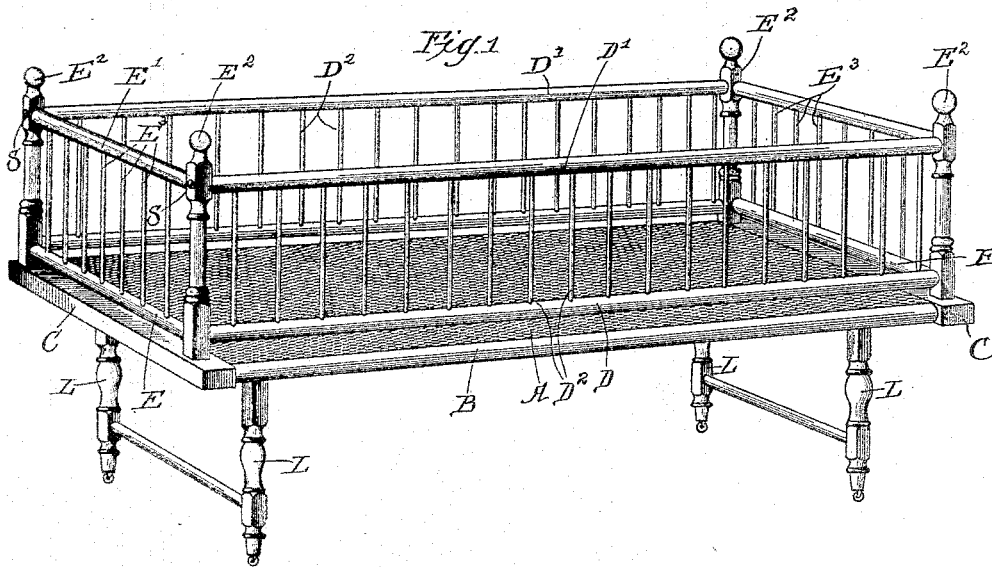
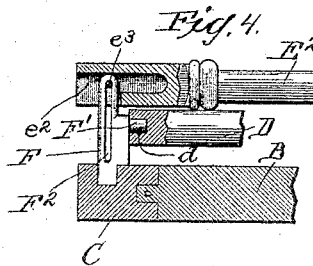
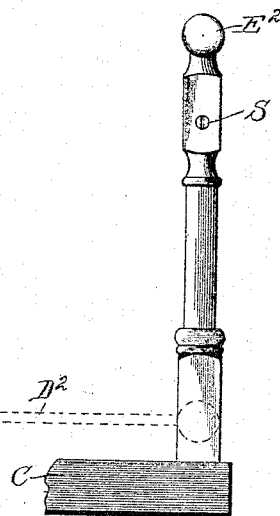


Fig. 3.



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UNITED STATES PATENT OFFICE.

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BED

SPECIFICATION forming part of Letters Patent No. 491,244, dated February 7, 1893.

Application filed November 14, 1892. Serial No. 451,918. (No model.)

To all whom it may concern:

Be it known that I, ORRIN G. FRANKS, a citizen of the United States, residing at Kenosha, in the county of Kenosha and State of Wisconsin, have invented certain new and useful Improvements in Beds; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My invention relates particularly to folding beds and cradles for children.

The object of the invention is to provide desirable end and side frames rising above the body of the bed and adapted to fold for storage or shipment.

In the accompanying drawings: Figure 1 is a perspective of a child's crib embodying my improvement. Fig. 2 is a view of one of the corners from the side of the crib. Fig. 3 is a similar view from the end of the crib. Fig. 4 is a sectional view of one of the corners when the bed is folded.

The body of the bed consists of the bed-bottom, A, side rails, B, and end rails, C. The said side rails and end rails are preferably permanently framed to each other and the bed-bottom, A, suitably secured between said end rails and side rails. Said body may be supported by legs, L, of any desirable construction. As my invention does not relate to this part of the bed, I deem it unnecessary to describe said legs in detail. The side frames consist of lower rails, D, upper rails, D', and rungs, D². The end frames consist of lower rails, E, upper rails, E', corner posts, E², and rungs, E³. Said side frames are to be folded inward upon the bed-bottom, A, and said end frames are then to be folded over the ends of said side frames.

Referring to Figs. 2 and 4, F is a post rising rigidly from each corner of the body of the bed, preferably from each end of each of the end rails, C. Each such post has a fixed stud, F', at a short distance above the adjacent side rail, B, and directed toward the corresponding post at the opposite end of the bed. The lower rail, D, of the adjacent side

frame has at each end a socket, d, into which the adjacent stud, F', extends, and the entire side frame is free to rotate upon said studs when not held at the upper corners by the corner posts, E², as hereinafter described. At its portion opposite the side rail, D, the post, F, is extended upward about an inch above the stud, F', and said post is provided with a slot, F², extending through said post from a point near the upper end of the latter toward its base and in a plane to which the stud, F', and the side rail, D, are perpendicular. The lower end of each corner post is provided with a cavity, e², into which all of said post, F, excepting the stud, F', fits closely, the lower portion of said cavity opening to the lower end of said post and to the face of said corner post which is adjacent to the stud, F', to a point as high as the upper side of said stud. The bar, e³, extends through the lower portion of the corner post and the slot, F², at such elevation as to allow said bar to rise in said slot sufficiently to bring the upper end of the post, F, out of that portion of the cavity, e², which is not open laterally toward the stud, F'.

At its upper end, each corner post, E², is suitably secured to the adjacent end of the upper rail, D'. This may be accomplished by mortising the end of said upper rail a little way into said corner post and driving a screw, S, through said corner post into the said upper rail. When said upper rails and corner posts have been thus united, the end frames are held down by the side frames, for the latter are anchored to the rigid posts, F, through the attachment on the stud, F'. The connection of the corner posts and the upper rails also serves to keep the side frames in the upright position.

When the bed is to be folded, the screws, S, are removed and the end frames sprung away from the upper rails, D', sufficiently to allow the latter and the entire side frames to be folded toward each other flat-wise upon the bed-bottom, A, as indicated by the dotted lines in Fig. 3. This leaves the end frames in the upright position and supported only by the post, F, and held against turning toward each other over the bed-bottom only by the upper portion of said post resting in that part of the cavity, e², which does not open

laterally through the corner post. Each end frame may now be drawn upward on said posts, F, until the bar, e^3 , has reached the upper end of the slot, F^2 . Then the upper end of said post, F, is entirely beneath that part of the cavity, e^2 , which does not extend laterally through the corner post. The end frame may now be turned on the bars, e^3 , toward the middle of the bed, the walls of the corner post at each side of the lower portion of the cavity, e^2 , passing by the post, F, until the end frame is in a horizontal position, as indicated in Fig. 4. The upper end of the post, F, and the slot, F^2 , are made of such height as will permit all of the lower portion of the end frame to rise above the folded side frames when the end frame is folded.

The construction which I have described is substantial and durable and is also attractive in appearance. That it is capable of being folded is not apparent. All the joints appear to be permanent. The posts, F, are almost wholly hidden within the corner posts, E^2 . Only a small portion of the post, F, is exposed beneath the lower rail, D, and said portion is flush with the adjacent face of the corner post, so that it is not readily noticed. The posts, F, virtually form a telescopic and hinged connection for the end frames, and the union of the side frames with the end frames locks the latter in their lowermost upright position. The hinges between the end frames and the posts, F, are operative only when the end frames are in the uppermost position permitted by the telescopic relation between said end frames and said posts, F.

While I prefer to use the posts, F, for hinging the side frames as well as the end frames, it is obvious that separate posts or equivalent parts might be used for hinging the side frames.

I claim as my invention—

1. In a bed, the combination with the body, A, B, C, B, C, of upright end frames secured to said body by a telescopic connection, and side frames intervening between the corner posts of said end frames and hinged at their lower corners to said body, and detachably secured by their upper corners to the corner posts of the end frames, substantially as described.

2. In a bed, the combination with the body, A, B, C, B, C, of upright end frames secured

to said body by a telescopic and hinged connection, and side frames intervening between the corner posts of said end frames and hinged at their lower corners to said body, and detachably secured by their upper corners to the corner posts of the end frames, substantially as described.

3. In a bed, the combination with the body, A, B, C, B, C, of rigid posts, F, located at the corners of said body, end frames having corner posts telescoping over said posts, F, and side frames intervening between said end frames and hinged at their lower corners to said body, and detachably secured at their upper corners to the corner posts of said end frames, substantially as described.

4. In a bed, the combination with the body, A, B, C, B, C, of rigid posts, F, located at the corners of said body, end frames having corner posts telescoping over and hinged to said posts, F, and side frames intervening between said end frames and hinged at their lower corners to said body, and detachably secured at their upper corners to the corner posts of said end frames, substantially as described.

5. In a bed, the combination with the body, A, B, C, B, C, of rigid posts, F, located at the corners of said body, end frames having corner posts telescoping over said posts, F, and side frames intervening between said end frames and hinged at their lower corners to said body by means of said posts, F, and detachably secured at their upper corners to the corner posts of said end frames, substantially as described.

6. In a bed, the combination with the body, A, B, C, B, C, of posts, F, rising from the corners of said body, end frames having corner posts telescoping over and hinged to said posts, F, and side frames intervening between said end frames and hinged by the lower corners to said body by means of said posts, F, and detachably secured by their upper corners to the corner posts of said end frames, substantially as described.

In testimony whereof I affix my signature, in presence of two witnesses, this 2d day of November, in the year 1892.

ORRIN G. FRANKS.

Witnesses:

JAMES CAVANAGH,
CYRUS KEHR.