June 29, 1926. 1,590,550

F. S. RECE

HOOK FOR ROLLING CRIBS

Filed April 7, 1924

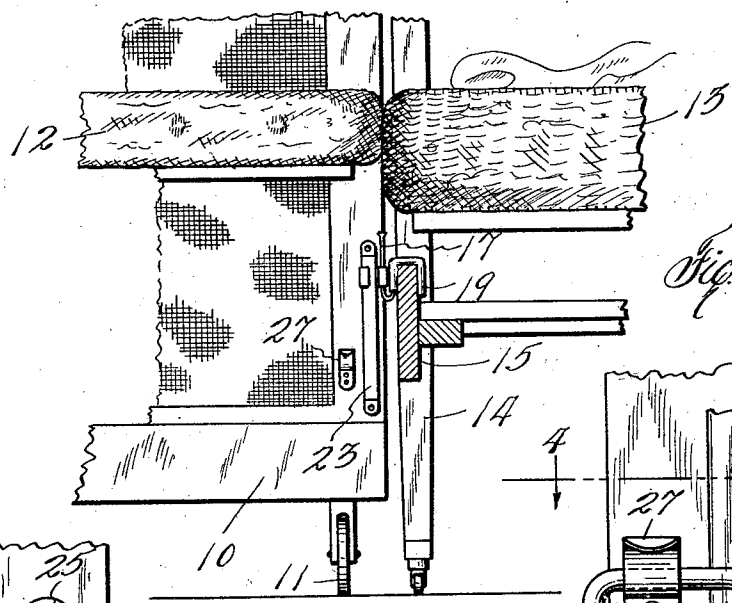


Fig. 1.

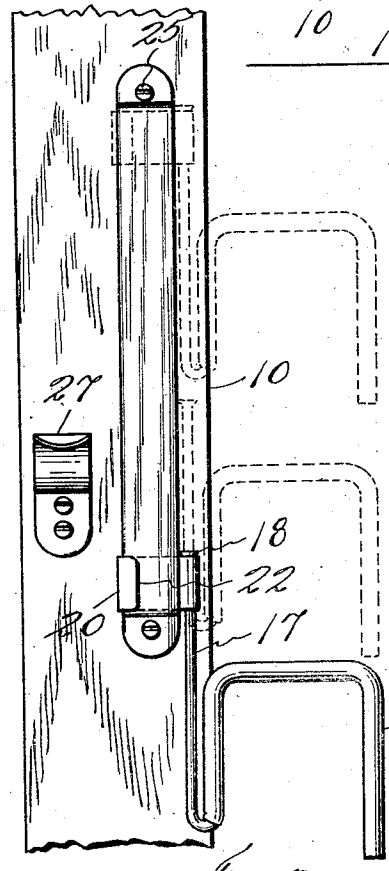


Fig. 2.

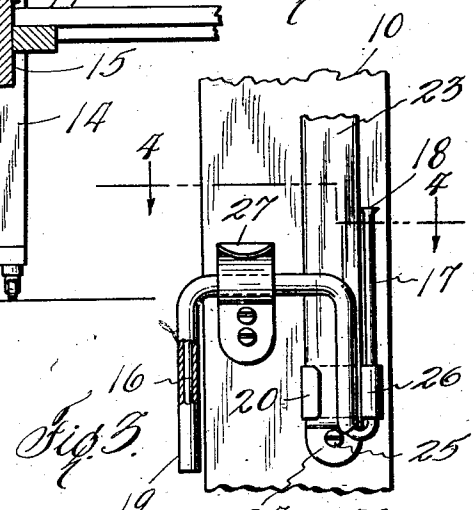


Fig. 3.

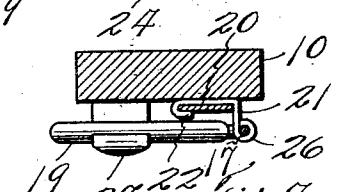


Fig. 4.

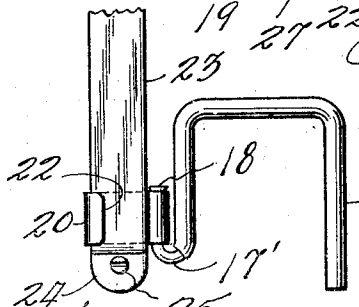


Fig. 5.

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UNITED STATES PATENT OFFICE.

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HOOK FOR ROLLING CRIBS.

Application filed April 7, 1924. Serial No. 704,814.

This invention relates to new and useful improvements in hooks for rolling cribs.

The present invention has to do with certain improvements upon the hook shown in the Letters Patent issued to me November 25th, 1919, No. 1,322,616.

The invention has particularly to do with a hook, which has for its sole purpose the attachment of a rolling crib to the side of a bed, whereby said crib cannot roll away or be displaced from the bed; said hook being vertically adjustable to engage over the side rails at various elevations and thus not functioning in any way to support the crib.

The object of the present invention is to provide such a hook on a vertically adjustable carrier, whereby the elongated shank 54 of my former patent may be reduced or entirely eliminated and whereby a greater amplitude of vertical adjustment is obtainable. The variation in the height of the side rails of different beds is such as to require a vertical adjustment of eight or ten inches and the shank 54 of my former patent had to be made so long that it was weak and would bend or spring, thus allowing the crib to be displaced and distorting the hook to a useless shape.

A further improvement resides in the provision of a laterally elongated carrier mounted to slide vertically on a flat guide bar, whereby the carrier and the hook mounted thereon cannot rock in a vertical plane, thus being more substantial and holding the mattresses of the crib and bed in constant contact.

A construction designed to carry out the invention will be hereinafter described together with other features of the invention.

The invention will be more readily understood from a reading of the following specification and by reference to the accompanying drawings, in which an example of the invention is shown, and wherein:

Fig. 1 is a transverse vertical sectional view of adjacent portions of a crib and bed held in contiguous relation by a hook constructed in accordance with my invention,

Fig. 2 is an enlarged elevation of the hook shown in Fig. 1, in operative positions,

Fig. 3 is a similar view showing the hook engaged in its keeper when not in use,

Fig. 4 is a cross-sectional view on the line 4—4 of Fig. 3, and

Fig. 5 is an elevation of a modified form of hooks.

In the drawings the numeral 10 designates a baby crib mounted on wheels, only one of which 11, is shown. The crib has a mattress 12 suitably supported on a level with the mattress 13 of a bed 14. By means of my invention the mattresses are held in contact and the mother may roll or slide the baby from one to the other, without the exertion of lifting.

The crib being mounted on wheels must be held contiguous to the bed or else it would be pushed away and leave a gap between the mattresses. As the ordinary crib is shorter than the average bed, the side rail 15, becomes the logical element to which to attach the crib.

For this purpose I provide at each end of the crib a hook comprising an inverted bill 16, bent parallel to an upright shank 17 having a head 18 at its upper end. This may be formed of heavy gauge wire, as for instance #10, or it may be otherwise made, as the manufacture requires. The bill may be covered with a piece of rubber tubing 19 or otherwise sheathed to prevent injury to the side rail.

A very important feature of the invention is the means for vertically adjusting the hook. In Letters Patent above referred to, the shank 57 of the hook, was relied upon to provide sufficient vertical adjustment to permit the hook to be engaged with the rails at various heights, but market investigations have since shown that this variation will run from eight to ten inches. To provide for this the shank 57 would have to be made so long, that it would be unsightly and would hang too low when not in use. Further such a long shank was found to be weak, and when in lower positions would bend and thus could not be adjusted upwardly.

In order to make a short, stout hook, and

also obtain the necessary adjustment I provide a carrier 20 made of a flat strip or plate, bent at right angles at one end to form an outwardly extending bracket 21. At its opposite end the strip is bent upon itself to form a keeper 22. On the outer side of each end of the crib, I mount a vertical guide bar 23 having offset ears 24 at its ends, secured to the crib by screws 25, and whereby the bar is spaced from the crib.

On the bar is mounted the carrier with the keeper engaging over one edge and the bracket contiguous to the other edge. The carrier fits snug enough to eliminate appreciable play transversely of the bar and the keeper overhangs sufficiently to prevent displacement. The bar and carrier both being flat provide a substantial structure; however the invention is not limited to a flat guide bar or a flat carrier, as a round, square or other shape may be used.

The carrier is slidable vertically on the bar and has a bead 26 on the outer end of its bracket 21. The shank 17 of the hook is arranged to rotate in the bead and to undergo a limited vertical sliding movement therein. The downward movement of the shank is limited by the head 18 engaging the bead. When the hook is not in use it is raised, swung against the end of the crib and lowered so that the bill 16 is caught in a clip 27. When the crib is being roller about, as for use on a sun porch or a lawn, the hooks are supported so as not to interfere. In Fig. 5 I have shown a modified form in which the shank 17′ is of such length as to be confined against vertical movement in the bead, the adjustment being entirely limited to the carrier.

When it is desired to attach the crib to a bed the hooks are lifted from the slips 27 (Fig. 3) and swung outwardly. The crib is pushed up to the bed so that the mattresses contact. The hooks may be lifted in the slips until the crib is in position, if desired. To attach the crib the hooks are lifted and their bills 16 swung over the side rail 15 and then lowered as is shown in Fig. 1. When the hook is lifted the carrier 20 may be adjusted vertically if the length of the shank 17 does not bring it to the proper height. While the variation in bed rail elevations ranges from eight to ten inches, the bill of the hook must be lifted even higher, so as to pass over the rail 15.

Cribs have been made with hooks even prior to my Letters Patent aforesaid, but in most instances they have been used to support the crib and even if adjustable require the use of a wrench and are inconvenient to adjust. A crib is usually handled by a woman and my invention seeks to make the attachment and adjustment of the hook easy, simple and with little effort, no exertion and very convenient. The hook should work free and therefore could not carry any weight.

Various changes such as the shape, and size of the bill, carrier and guide bar, the omission of the tubing 19, or some other form of support or fastening, in place of the clip 27, as well as alterations and modifications may be made within the scope of the appended claims.

What I claim is:

1. A device for attaching a crib to a bed comprising, a fixed support for mounting on the crib, a vertically movable carrier mounted to slide on the support, a hook mounted to rotate horizontally in the carrier, whereby said hook may be swung inwardly with relation to said carrier, and a down-turned bill carried by said hook in position engaging over the side rail of a bed.

2. A device for attaching a crib to a bed comprising, a fixed support for mounting on the crib, a vertically movable carrier mounted to slide on the support, a hook mounted to slide vertically in said carrier and also to rotate horizontally in the carrier, whereby said hook may be swung inwardly with relation to said carrier, and a down-turned bill carried by said hook in position engaging over the side rail of a bed.

3. A device for attaching a crib to a bed comprising, a vertical guide for stationary mounting on the end of a crib, a carrier free to slide up and down the length of the guide, and a hook rotatably mounted in said carrier to swing in a horizontal plane and having a down-turned bill for engaging over the side rail of a bed.

4. A device for attaching a crib to a bed comprising, a vertical guide for stationary mounting on the end of a crib, a carrier free to slide up and down the length of the guide, and a hook free to slide vertically in the carrier and also being horizontally rotatable in said carrier, said hook having a down-turned bill for engaging over the side rail of a bed.

5. A device for coupling a crib and a bed in close relation, whereby their mattresses may be abutted, said hook comprising a vertical stationary guide for attachment to the end of a crib, a carrier slidable vertically on the guide, and a hook hinged on the carrier in juxta-position to the guide for swinging horizontally and having a down-turned bill for engaging over the side rail of a bed.

6. A device for coupling a crib and a bed in close relation, whereby their mattresses may be abutted, said hook comprising a vertical stationary guide for attachment to the end of a crib, a carrier having a hook mounting in juxta-position to the guide and free to slide vertically up and down the length of the guide, and a hook disposed in the mounting of the carrier and free to rotate horizontally and to slide vertically in said carrier mounting, said hook having a down-turned bill for engaging the side rail of a

bed and extending from a point in juxtaposition to the carrier mounting.

7. In a hook structure for coupling a crib to a bed comprising, a vertical support for stationary attachment to the end of a crib, a carrier free to slide vertically on said support, and a hook hinged to the carrier for swinging horizontally and having a downturned bill for engaging over the side rail of a bed, the carrier being supported by the hook when the latter is engaged over said side rail.

In testimony whereof I affix my signature

FRANK S. RECE.