

No. 612,056.

Patented Oct. 11, 1898.

L. D. REYNOLDS & V. G. JONES.

BED RAIL CLAMP.

(Application filed Apr. 19, 1898.)

(No Model.)

Fig. 1.

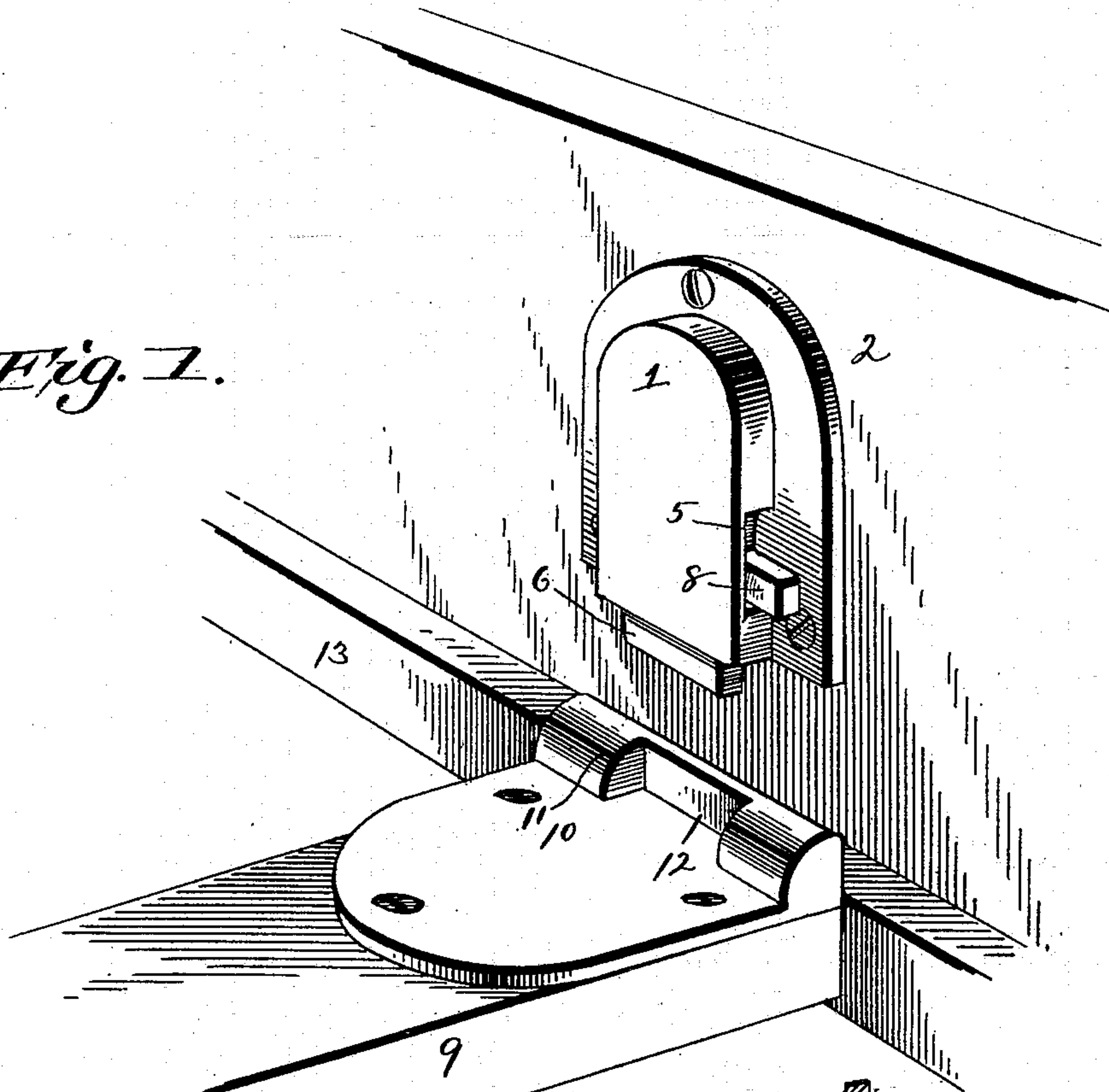
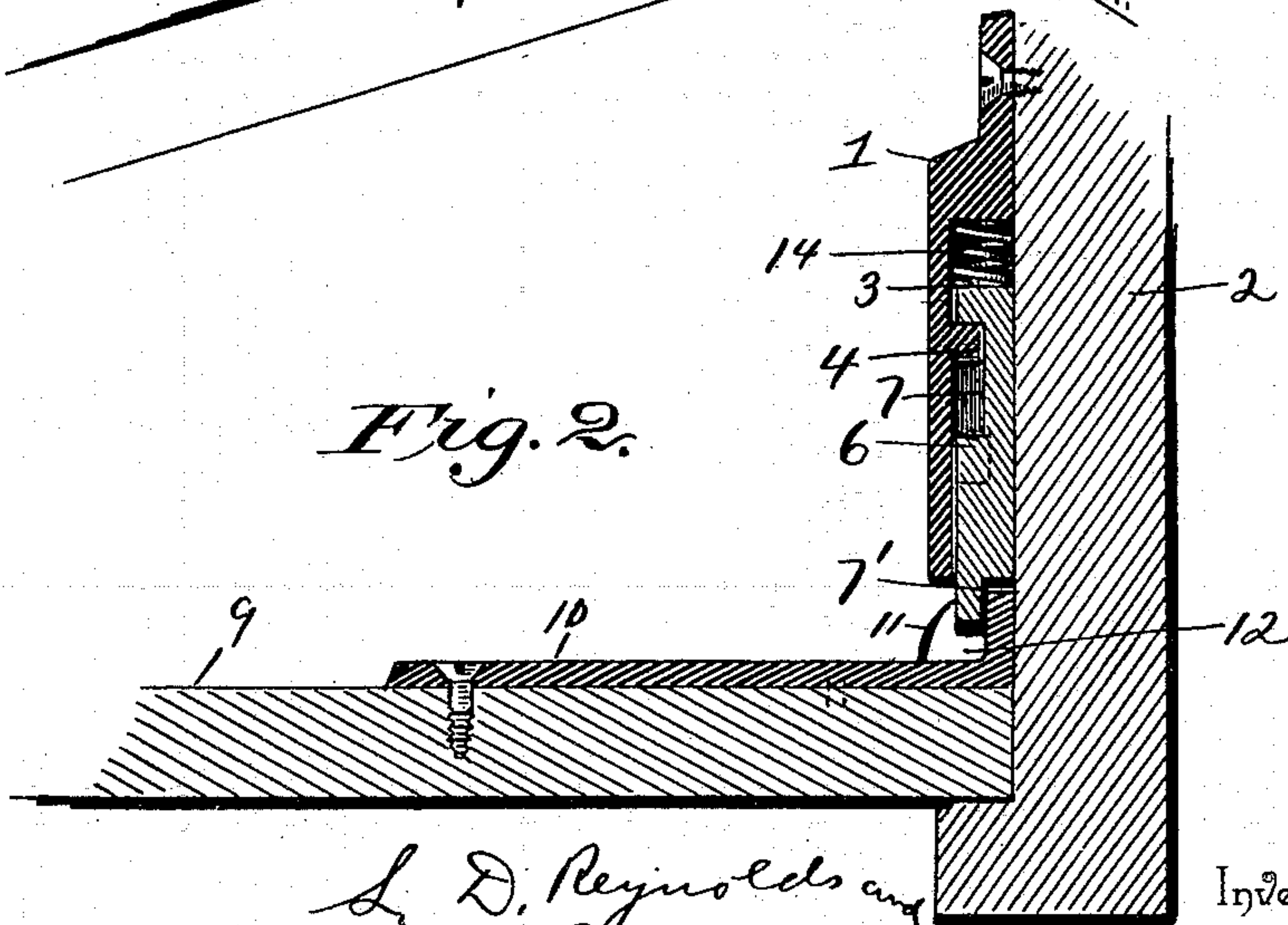


Fig. 2.



Witnesses:

L. C. Hills.
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UNITED STATES PATENT OFFICE.

LEWIS D. REYNOLDS AND VAN G. JONES, OF ISLAND BRANCH, WEST VIRGINIA.

BED-RAIL CLAMP.

SPECIFICATION forming part of Letters Patent No. 612,056, dated October 11, 1898.

Application filed April 19, 1898. Serial No. 678,189. (No model.)

To all whom it may concern:

Be it known that we, LEWIS D. REYNOLDS and VAN G. JONES, citizens of the United States, residing at Island Branch, in the county of Kanawha and State of West Virginia, have invented certain new and useful Improvements in Bed-Rail Clamps; and we 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.

Our invention has relation to bed-rail clamps; and it consists in the novel construction and arrangement of its parts; as hereinafter described.

The object of the invention is to supply a clamp whereby the lateral spread or bow of the said rails of the bed is prevented. The clamp is adapted to coact with suitable castings located at the opposite ends of a slat, the slat maintaining the side rails in their proper relative positions to each other.

In the accompanying drawings, Figure 1 is a perspective view of a section of the side rail of the bed, showing the clamp located thereon and the end of a slat having the casting located thereon and disconnected from the clamp. Fig. 2 is a transverse sectional view of the side rail, showing the end of the slat connected to the clamp.

The clamp consists of the casing 1, which is attached by any suitable means to the inner side of the side rail 2 of the bed. The casing 1 is provided in its interior with a recess 3, the inner surface of the side rail 2 forming one of the walls of said recess, as shown in Fig. 2. One of the inner walls of the recess 3 is provided with a rib 4, said rib extending horizontally, as indicated in Fig. 2. The opening 5 (see Fig. 1) extends from the exterior into the interior of the casing 1 and enters the recess 3. A sliding bolt 6 is adapted to reciprocate perpendicularly within the recess 3. Said bolt is provided near its upper end with a recess 7, said recess being adapted to receive the rib 4, and thus limit the perpendicular play of the bolt. When the bolt 6 is in its lowest position, as indicated in Fig. 2, the lower end of the bolt projects beyond the lower end of the casing 1, and the rear edge

of the lower end of the bolt is cut away, forming a recess 7. The bolt 6 is provided on one side with a projection 8, said projection passing through the opening 5, as indicated in Fig. 1. The slat 9 is provided at each end with a casting 10, the said castings having at their outer edges the upwardly-extending flanges 11. Each flange 11 is provided at an intermediate point with a recess 12. The ends of the slat 9 are adapted to rest on the ledge 13, and the flanges 11 pass under the clamps attached to the inner sides of the side rails 2. The finger is passed under the projection 8 and the bolt 6 is elevated. After the slat is located in proper position the finger is removed from beneath the projection 8 and the bolt 6 descends, the recess 7 of the lower end thereof receiving the outer wall of the recess 12 of the casting 10. Thus the ends of the slat 9 are firmly secured in place and the side rails 2 are prevented from spreading. In order to remove the slat 9, the operation above described is reversed, and the slat can be readily taken from the bed. When the slat is in position, the clamp is prevented from any lateral displacement by the end walls of the recess 12 coming in contact with the lower end of the bolt 6. Should it be deemed necessary or advantageous, a coiled spring 14 may be interposed between the upper end of the bolt 6 and the upper wall of the recess 3, as shown in Fig. 2.

Having described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. A device adapted to prevent the lateral spread of bed-rails consisting of clamps fixed to the rails, said clamps consisting of casings and sliding bolts, a slat, a casting located at each end of the slat, said castings having at their outer ends upturned flanges, recesses located at an intermediate point in said flanges, the ends of the sliding bolts adapted to enter said recesses.

2. A device adapted to prevent the lateral spread of bed-rails consisting of clamps located on the rails, each clamp consisting of a casing, said casings having in their interiors recesses, cross-ribs located in said recesses, a bolt located in each of the recesses, each bolt having near its upper end a recess adapted

to receive the cross-rib, a slat having at its ends recesses, the lower ends of the bolts adapted to enter the slat-recesses.

3. A device adapted to prevent the lateral
5 spread of bed-rails consisting of a clamp fixed to each rail, each clamp consisting of a casing and a sliding bolt located therein, each bolt having at its inner edge a recess, a slat hav-
10 ing at its ends upwardly-extending flanges, recesses located at intermediate points in said flanges, the lower ends of the sliding bolts

adapted to enter the slat-recesses, the outer wall of the slat-recesses being adapted to enter the recesses at the lower ends of the bolts.

In testimony whereof we affix our signa- 15
tures in presence of two witnesses.

LEWIS D. REYNOLDS.
VAN G. JONES.

Witnesses:

J. T. JONES,
PETER F. JONES.