Aug. 9, 1932. H. RAINIER 1,871,199

CONNECTION MEANS FOR SIDE RAILS AND POSTS OF BEDSTEADS

Filed May 26, 1926

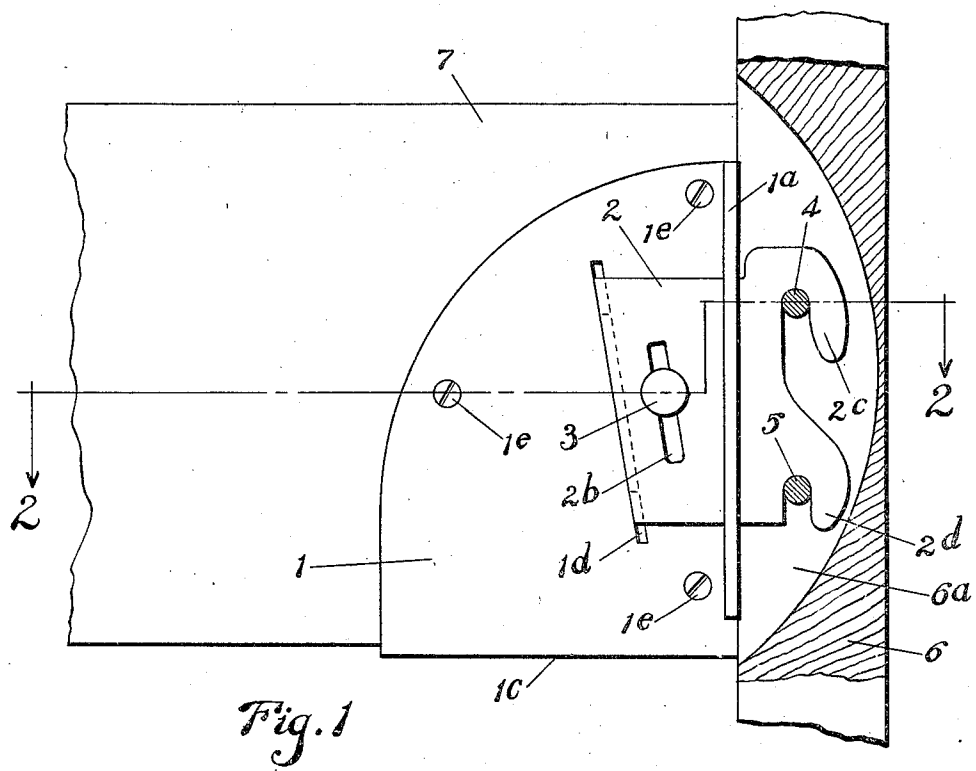


Fig. 1

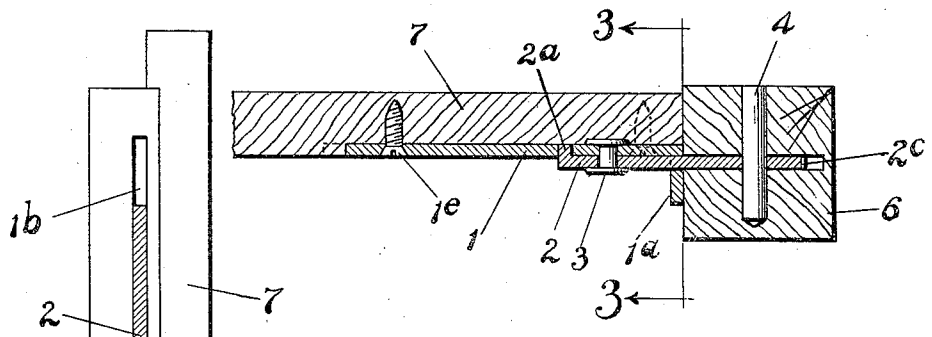


Fig. 2

Fig. 3

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UNITED STATES PATENT OFFICE

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CONNECTION MEANS FOR SIDE RAILS AND POSTS OF BEDSTEADS

Application filed May 26, 1926. Serial No. 111,719.

My invention relates to a connection means for securing the ends of the side rails of a bedstead with the corner posts of the head and foot of the bedstead, and the objects of my invention are; first, to provide a connection means of this class in which one of the connecting members is movable, therefore easy to position; second, to provide a connection means of this class which automatically draws the side rail member and corner post together providing a very rigid joint; third, to provide a connection means of this class in which a movable connecting member is shiftable on an angle relatively to its support whereby the side rail and corner post of a bedstead are drawn together by pressure applied on the upper side of the bed rail after positioning the connection means; fourth, to provide means for rigidly securing the connecting members together after they are positioned; fifth, to provide a novel connection means of this class; and, sixth, to provide a means of this class which is very simple and economical of construction, durable, easy to install, efficient in its action and which will not readily deteriorate or get out of order.

With these and other objects in view, as will appear hereinafter, my invention consists of certain novel features of construction, combination and arrangement of parts and portions as will be hereinafter described in detail and particularly set forth in the appended claims, reference being had to the accompanying drawing and to the characters of reference thereon which form a part of this application in which:

Figure 1 is a side elevational view of my connection shown connecting the side rail and corner post of a bedstead, showing the side rail fragmentarily and the bedstead in section to facilitate the illustration; Fig. 2 is a sectional view through 2—2 of Fig. 1, and Fig. 3 is a sectional view through 3—3 of Fig. 2.

Similar characters of reference refer to similar parts and portions throughout the several views of the drawing.

The stationary supporting plate 1, shiftable supporting member 2, connecting rivet 3, pins 4 and 5, corner post 6, and side rail 7 constitute the principal parts and portions of my connection means.

The stationary supporting plate 1 is preferably a metallic plate member provided with an outwardly extending flange 1*a* along one side which is provided with a slot 1*b* therein which forms a guide for the shiftable movement of the shiftable member 2. It is also provided with a flange 1*c* along its normally lower side which is adapted to rest against the lower side of the bedstead rail 7 for supporting and reinforcing the same. It is also provided with an angular slot 1*d* which also serves as a guide and support for the shiftable member 2. This plate 1 is secured to the side of the rail 7 by means of screws 1*e*, it being preferred to set the plate in flush with the outer surface of the rail, as shown, but this is not necessary. The shiftable member 2 is also preferably made of metallic plate, and it is provided with a right angled turned edge 2*a*, shown best in Fig. 2 of the drawing which is slidably mounted in the slot 1*d* in the member 1, it being noted that that edge of the member 2 is provided with an angle conforming with the angle of the slot 1*d*. This member 2 is also provided with a slot 2*b* therein which is parallel with the edge of the plate 2 and the slot 1*b*, and mounted in this slot 2*b* is a rivet, the head of which is adapted to hold the member 2 in relative position to the member 1 but permit its angular shiftable movement. This rivet 3 is secured rigidly in the plate 1. This member 2 is provided with extended hook portions 2*c* and 2*d* on its opposite side from the flange 2*a*, and these hook portions 2*c* and 2*d* are in certain spaced relation and so shaped as to fit over the pins 4 and 5 which are mounted in the post 6 transversely to the plane of the member 2, the post 6 being provided with a slot 6*a* which is adapted to receive the edge of the member 2 so that the hook members 2*c* and 2*d* may be readily placed over the pins 4 and 5.

It is obvious that the member 2 being shiftable on an angle relatively to the plate 1 and therefore the rail, that when the member is down toward the lower side of the slot 1*b*

it extends far enough so that the hook members 2*c* and 2*d* may be readily placed over the pins 4 and 5. Then, when the rail is pressed down and the member 2 moves upwardly relatively to the plate 1, the end of the rail and the flange 1*a* will be forced tightly against the corner post 6, thus providing a rigid connection between the rail and the post and one that can be easily positioned.

Though I have shown and described a particular construction, combination and arrangement of parts and portions, I do not wish to be limited to this particular construction, combination and arrangement, but desire to include in the scope of my invention the construction, combination and arrangement substantially as set forth in the appended claims.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. In a connection means for rails and posts of bedsteads, a plate provided with an outwardly extending flange secured to the one end of the bed rail and provided with a slot in said flange, said plate provided with a second slot positioned angularly to said flange, and with a rivet with a spaced head secured in spaced relation with the said second slot, and a shiftable member provided with an angular edge conforming to the angle of said second slot and provided with a right angled flange adapted to slide in said second slot and provided with a slot adapted to receive the rivet in said plate, said shiftable member extending outwardly through the first slot and provided with hooks on its extended edge.

2. In a connection means for rails and posts of bedsteads, a plate provided with an outwardly extending flange secured to the one end of the bed rail and provided with a slot in said flange, said plate provided with a second slot positioned angularly to said flange, and with a rivet with a spaced head secured in spaced relation with the said second slot, a shiftable member provided with an angular edge conforming to the angle of said second slot and provided with a right angled flange adapted to slide in said second slot and provided with a slot adapted to receive the rivet in said plate, said shiftable member extending outwardly through the first slot and provided with hooks on its extended edge, and a bed post provided with pins extending laterally therethrough and a slot intermediate its sides adapted to receive the plate side carrying said hooks whereby the hooks may be placed over said pins.

3. A bed rail fastener for detachably connecting a bed rail with a bed post, including a connecting member in the form of a plate with a hook on the outer end adapted to engage the bed post, and a laterally extending projection on the inner end of the connecting member, and means at the end of the bed rail providing a vertical recess for receiving said connecting member and permitting its vertical and longitudinal movement and having a cam slot extending and inclining upwardly away from the end of the rail into which slot the projection from the connecting member extends, so that the weight of the bed rail and its load tends to move the rail downward relatively to said projection and automatically tighten the hold of the connecting member on the bed post increasingly as the weight increases substantially as and for the purpose set forth.

4. A bed rail fastener for detachably connecting a bed rail with a bed post, including a connecting member in the form of a plate with a hook on the outer end adapted to engage the bed post, an extension below said hook for reinforcing it against side thrust and an elongated laterally extending flange on the inner end of said connecting member and means at the end of the bed rail providing a vertical recess for receiving said connecting member and permitting its vertical and longitudinal movement and having a cam slot extending and inclined upwardly away from the end of the rail into which slot the flange on the connecting member extends so that the slot narrowly embraces the flange and restrains it to simple sliding motion, substantially as and for the purpose set forth.

In testimony whereof, I have hereunto set my hand at Los Angeles, California, this 19th day of May, 1926.

HARRY RAINIER.