W. J. MARVIN.

CORNER LOCK.

APPLICATION FILED APR. 21, 1921.

1,403,435. Patented Jan. 10, 1922.

Fig. 1.

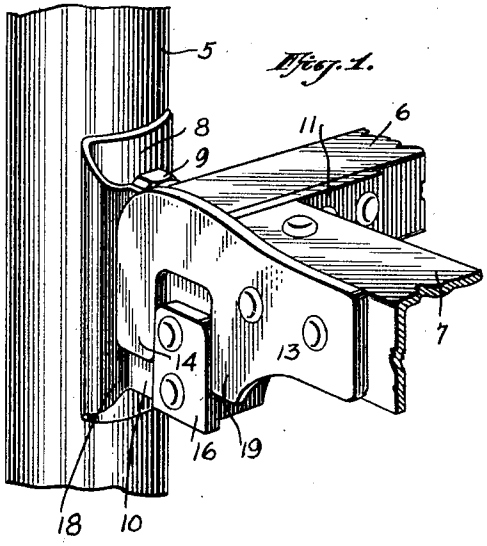



Fig. 2.

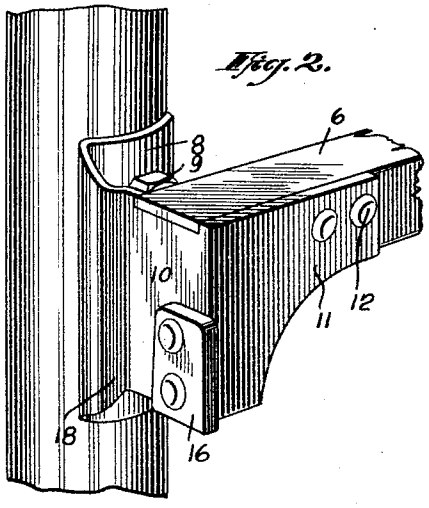



Fig. 3.

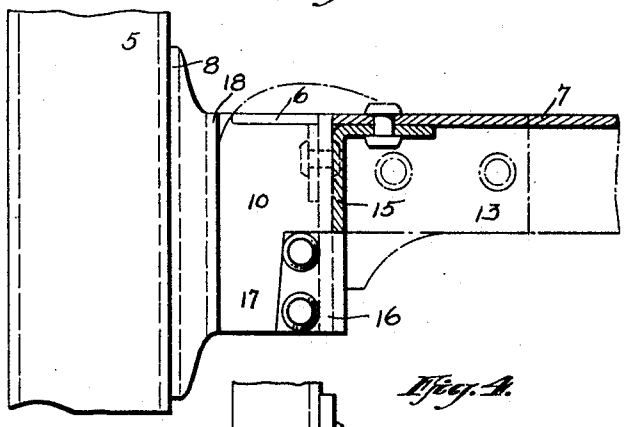
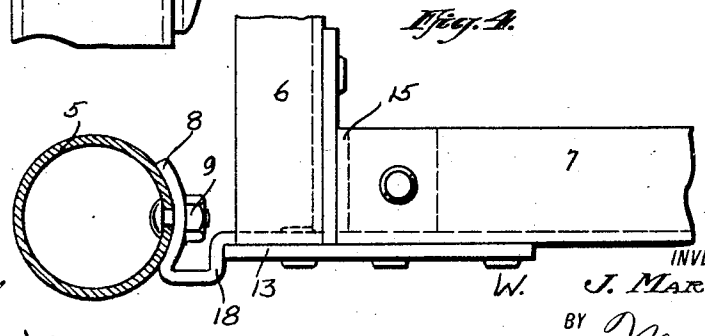



Fig. 4.




WITNESSES

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# UNITED STATES PATENT OFFICE.

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## CORNER LOCK.

1,403,435. Specification of Letters Patent. Patented Jan. 10, 1922.

Application filed April 21, 1921. Serial No. 463,325.

*To all whom it may concern:*

Be it known that I, WILLIAM J. MARVIN, a citizen of the United States, and resident of the city of New York, borough of Brooklyn, county of Kings, and State of New York, have invented a new and Improved Corner Lock, of which the following is a full, clear, and exact description.

My invention relates to a corner lock and aims to provide a device of this nature more particularly adapted for use in connection with bedsteads.

It is well appreciated that any number of different types of corner locks have been provided which would serve to connect the cross angle and side angles with the bed posts. These corner locks have ranged in sizes and types according to the manufacturer producing the bedstead, and thus it has been necessary for the dealer to carry a large assortment of cross angles and side angles in stock which would be capable of meeting the desires of the customer, and at the same time properly co-operate with the head and foot portions of the bed.

Furthermore, a great number of corner locks have incorporated structure which has been far from satisfactory, and has permitted the parts to become loosened upon being used to a great extent so that an otherwise perfect bedstead has been rendered useless.

Numerous other difficulties have also arisen, and with all of these objections in mind my present invention aims to provide an article of manufacture in the nature of a corner lock serving to effectually support the cross and side angles in such a manner that no play can come into being between the various parts of the bed.

A further object of this invention is the provision of a corner lock which may be furnished in one or a limited number of sizes, capable of association with any type of bed so that the difficulty upon this point will be avoided.

Still another object of my present invention is the construction of a corner piece which may readily be associated with a bedpost, cross and side bars so that the difficulties heretofore experienced in the application of these members to their respective parts will also be eliminated.

Also further objects of my invention will appear in the annexed specification taken in connection with the drawings which later present one practical embodiment of the same, and in which;

Figure 1 is a perspective view of the corner lock and showing the same in assembled position.

Figure 2 is a similar perspective view, but showing the side rails together with their associated parts of the lock removed.

Figure 3 is a sectional side view of the device as illustrated in Figure 1, and

Figure 4 is a sectional plan view of the same.

Referring now more particularly to these drawings it will be seen that the reference numeral 5 indicates the corner posts of either the head or foot section of the bed, and the reference numerals 6 and 7 cross and side rails respectively, all of which may be of any desirable construction.

Contrary to the conventional construction however, a plate 8 is utilized, and this plate may be curved to conform to the post 5 as has been shown in Figures 1, 2 and 4.

Preferably to permit of ready application of the lock to the bedpost this plate may be secured to the post 5 by means of a nut and bolt 9, and it will be seen that the plate extends outwardly, as has been indicated at 10, and has a recess cut in its upper edge whereby to form a seat for the angle bar 6, and a further coupling with this angle bar being secured by extending the plate beyond the outwardly projecting portion 10 in a plane at right angles thereto as at 11, which latter lies flush with the face of the angle bar, and is riveted or otherwise secured as at 12.

Thus the plate affords a structure which will readily secure the angle bar to a post of any desirable character, and at the same time permit of this being accomplished with a minimum of time and effort by virtue of the bolt and nut construction adapted.

Now with a view of obtaining a rigid support on the part of the angle bars 7 it will be noted that a member 13 presents a hooked end 14 which may be wedge shaped and riveted or otherwise secured to the angle bar. Also secured in any desirable manner to the angle bar and adjacent the outer end of the same is a contact plate 15 beyond which the hook 14 of the member 13 extends.

The retaining plate 16 is riveted to the outwardly extending portion 10 of the plate 8 and is so arranged with respect to the same that it provides a wedge shaped recess 17,

the inner wall of which is formed by an offset portion 18 constituting the part of the plate 8 and lying between the body of the same and the outwardly extending portion 10 thereof.

It will be obvious that the contact plate 15 and the member 13 will present a unitary structure which will be absolutely rigid with respect to the angle bar 7 and it will further be appreciated that a supporting of the angle bar may readily be effected by bringing the hook 14 to a point at which the same will be introduced into the recess 17, the wedge shaped construction providing a firm interengagement between the offset portion 18 of the plate 8, the retaining plate 16 and the hook aforementioned. Furthermore this action will serve to draw the jaw 19 of the member 13 into engagement with the outer side edge of the retaining plate 16, as well as bringing the contact plate 15 to bear against that portion 11 of the plate 8 which extends at right angles to the outwardly extending portion 10 thereof.

Thus it will be seen that a corner lock is provided which may readily be attached to the bedpost and is capable of being associated with any type of head or foot portion of a bedstead. Furthermore those portions of the corner lock associated with these elements will serve to rigidly support the cross rail 6 with respect to the bed portions. By virtue of the fact that the member 13 and the contact plate 15 provide elements in rigid association with the angle bar 7 it will be understood that movement of these elements with respect to the angle bars will be precluded, and furthermore by virtue of the inter-engagement which will exist between the retaining plate 16 and parts of the member 13 that any movement on this score will be prevented in that the cross rail co-operating with the side rail will guard against this, this action being further prevented by means of the contact plate 15 firmly bearing against the portion 11 of the plate 8.

From the foregoing it will be seen that I have provided a corner lock which as aforestated is capable of application to any desirable type of bed head and foot portions, as well as any desirable type of cross and side rails, which is susceptible to ready application to these members at a minimum of cost.

Obviously numerous modifications of structure might readily be resorted to without in the least departing from the scope of my claims which are—

1. As an article of manufacture, a corner lock including a plate adapted to conform to the contour of the bed post with which it is to be associated, said plate being formed with an outwardly extending portion, a further portion extending at right angles to said outwardly extending portion and forming a continuation thereof, a retaining plate secured to the outwardly extending portion of said first named plate and means co-operating with said retaining plate, and an offset portion of said first named plate for supporting a side rail.

2. A corner lock including a plate, an outwardly extending portion forming a part of said plate, an offset portion between said plate and the outwardly extending portion thereof, a retaining plate secured to the base of said outwardly extending portion and being arranged to co-operate with said offset portion to provide a wedge shaped recess, and means adapted to support a side rail and extending into said wedge-shaped recess for retaining the whole in assembled position.

3. A corner lock including a plate, an outwardly extending portion forming a part of said plate, an offset portion between said plate and the outwardly extending portion thereof, a retaining plate secured to the base of said outwardly extending portion and being arranged to co-operate with said offset portion to provide a wedge shaped recess, a member adapted to be attached to a side rail, a hook forming a part of said member, said hook being adapted to extend into said recess.

4. A corner lock including a plate, an angle bar, an offset portion forming a continuation of said plate, an outwardly extending portion adjacent the outer end of said offset portion, said outwardly extending portion being engaged by one of the ends of a cross rail, a further portion of said plate forming a continuation of and extending at right angles to the outwardly extending portion thereof, said last named portion lying adjacent one of the side faces of said bar and being secured thereto, a retaining plate arranged upon the outwardly extending portion of said plate and co-operating with said offset portion to provide a wedge shaped recess, a side rail, a member secured to said side rail, a hook forming a part of said member and being adapted to be introduced into said wedge shaped recess, and a jaw also forming a part of said member and adapted to bear against the outer side edge of said retaining plate.

5. A corner lock including a plate, an angle bar, an offset portion forming a continuation of said plate, an outwardly extending portion adjacent the outer end of said offset portion, said outwardly extending portion being engaged by one of the ends of a cross rail, a further portion of said plate forming a continuation of and extending at right angles to the outwardly extending portion thereof, said last named portion lying adjacent one of the side faces of said bar and being secured thereto, a retaining plate

arranged upon the outwardly extending portion of said plate and co-operating with said offset portion to provide a wedge shaped recess, a side rail, a member secured to said side rail, a hook forming a part of said member and being adapted to be introduced into said wedge shaped recess, a jaw also forming a part of said member and adapted to bear against the outer side edge of said retaining plate, and a contact plate secured substantially adjacent the end of said side angle, said contact plate bearing against the outer face of the angularly extending portion of said first named plate when the parts are in their normal position.

WILLIAM JAMES MARVIN.