A. BARASHICK.

BEDSTEAD.

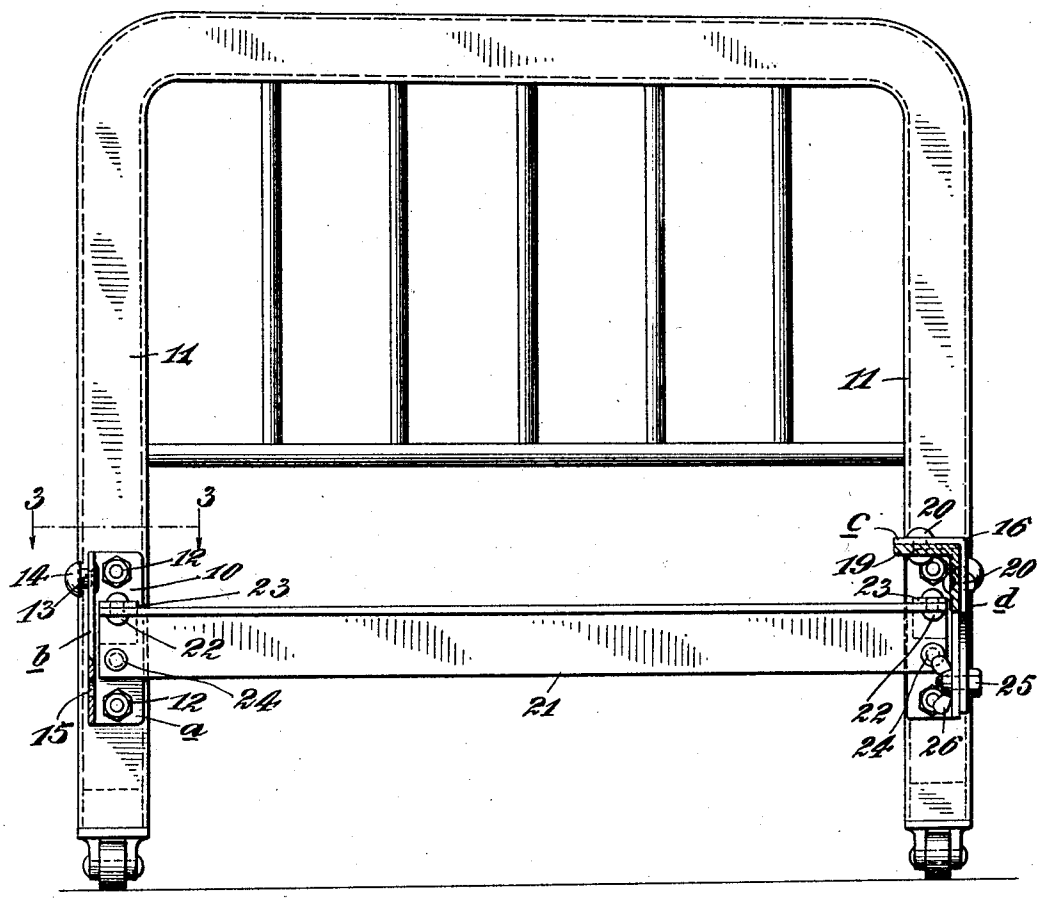
APPLICATION FILED JULY 18, 1921.

1,408,245.

Patented Feb. 28, 1922.

2 SHEETS—SHEET 1.

Fig. 1.



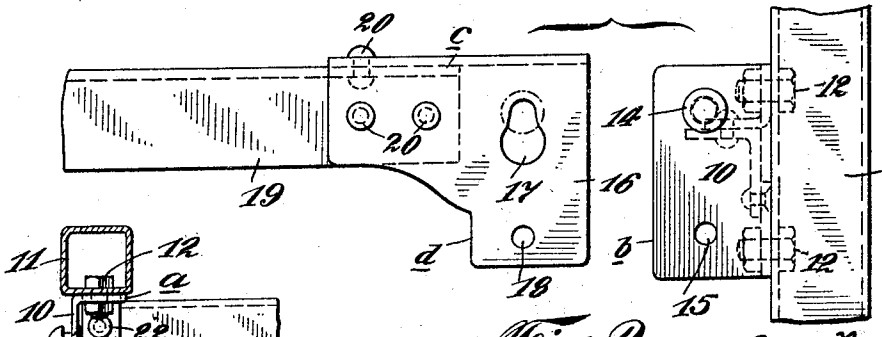


Fig. 2.

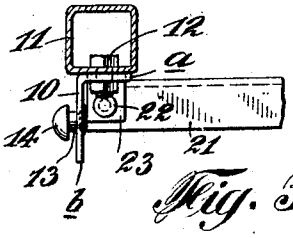


Fig. 3.

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2 SHEETS—SHEET 2.

Fig. 4.

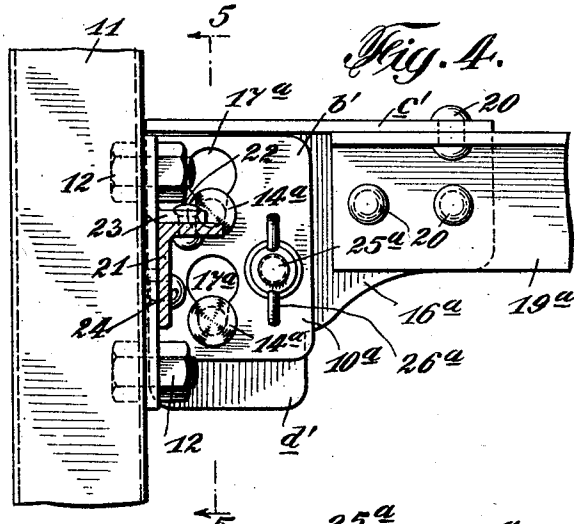
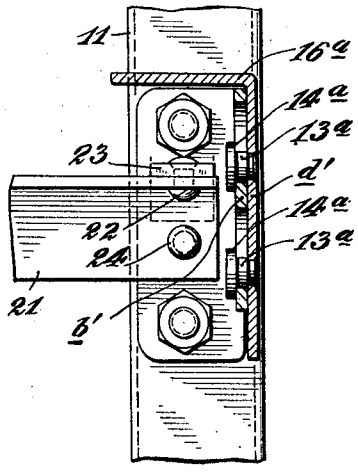


Fig. 5.



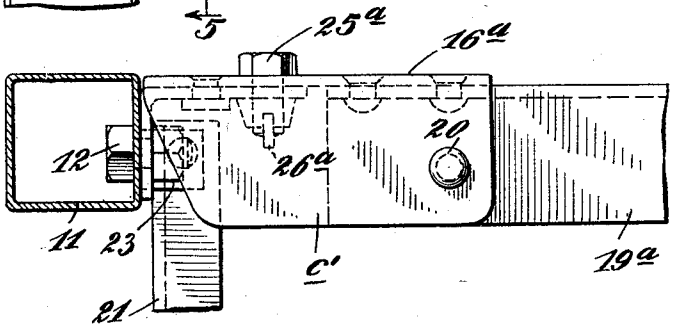


Fig. 6.

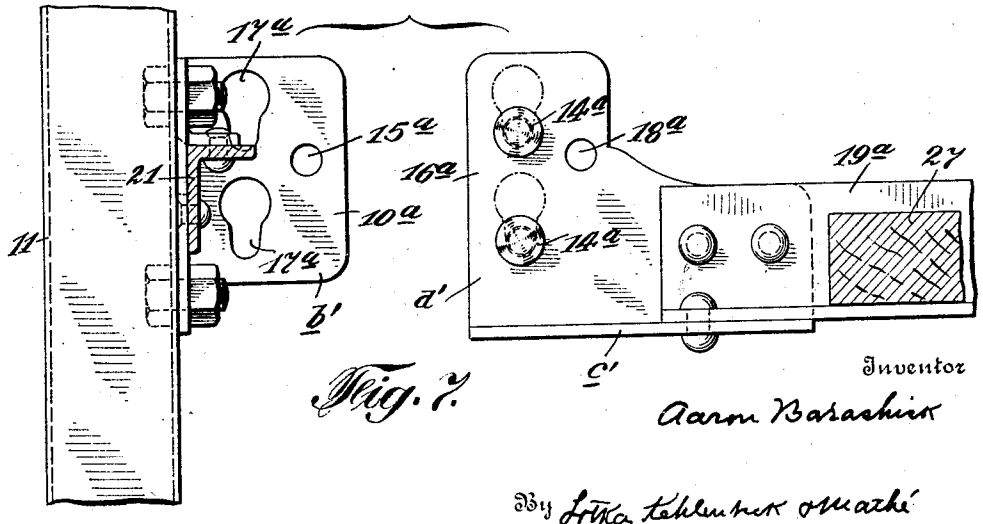


Fig. 7.

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UNITED STATES PATENT OFFICE.

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BEDSTEAD.

1,408,245. Specification of Letters Patent. Patented Feb. 28, 1922.

Application filed July 18, 1921. Serial No. 485,476.

To all whom it may concern:

Be it known that I, AARON BARASHICK, a citizen of the United States, and resident of Richmond Hill, borough and county of Queens, city and State of New York, have invented certain new and useful Improvements in Bedsteads, of which the following is a specification.

My invention relates to bedsteads and more particularly to that type thereof commonly known as metal bedsteads, and has for its object to provide an improved and novel locking means of simple construction whereby the side rails or bars are detachably connected with head and foot pieces of the bedstead in an efficient and reliable manner. Other more specific objects of my invention will appear from the description hereinafter and the features of novelty will be pointed out in the appended claims.

In the accompanying drawings, which illustrate examples of the invention without defining its limits, Figure 1 is an elevation of the head or foot piece of a bedstead, showing the side rails in section; Fig. 2 is a detail view of the elements constituting the locking means; Fig. 3 is a section on the line 3—3 of Fig. 1; Fig. 4 is a detail view, partly in section, illustrating another form of the invention; Fig. 5 is a sectional view thereof on the line 5—5 of Fig. 4; Fig. 6 is a plan view of Fig. 4, and Fig. 7 is a view similar to Fig. 2 showing the locking means detached from and in a different relation to each other.

As shown in Figs. 1, 2 and 3 the locking means comprises a supporting member 10 preferably in the form of an upright angle-iron, the one web *a* of which is attached to the upright post 11 of the head or foot piece of the bed and the other web *b* of which projects outwardly from said post 11 at a right angle, as shown in Fig. 3; that is to say, each upright post 11 or equivalent part of the head piece and foot piece of the bedstead is provided with a member 10 which is rigidly fixed in place in such a manner and in such a position that the members 10 of the head piece and foot piece, respectively, project toward each other in alignment when the bedstead is set up. The members 10 may be secured to the posts 11 in any suitable manner as, for instance, by means of bolts 12, in which case said members are readily detachable from said posts whenever, for any reason, this should be desired; on the web *b* which projects outwardly from the post 11 each member 10 is provided with a stud 13 having a head 14 and with a recess which is illustrated in the form of an aperture 15 and the purpose of which will appear more fully hereinafter.

The locking means further includes a cooperating member 16 which may also be in the form of an angle-iron having a horizontal web *c* and an upright web *d* extending at right angles thereto; the upright web *d* is provided with an opening in the form of a key-hole slot 17, the enlarged portion of which is of a diameter sufficiently large to pass over the head 14 of the stud 13 and the reduced portion of which is adapted to fit upon the latter and preferably tapers toward its closed end, as shown in Fig. 2. The web *d* is further provided with a recess which is also shown in the form of an aperture 18 and which, in the assembled condition of the parts, is adapted to register with the aperture 15, as will appear more fully further on in the description.

The webs *c* and *d* of the members 16 may be continued to constitute the side rails of the bedstead or, as shown in the illustrated example, said webs may be connected with the corresponding webs of the side rails 19 which, in such case, also comprise angle-irons, as shown in Fig. 1; any suitable means may be utilized to permanently connect the members 16 and the side rails 19, the drawings showing rivets 20 for this purpose.

In order to increase the rigidity of the bedstead as a whole I prefer to provide the head piece and foot piece of the bedstead with a transverse angle-iron or member 21 which has its opposite ends secured by means of rivets 22 or the like to lugs 23 preferably struck from and comprising integral parts of the members 10. As shown in Figs. 1 and 5, additional rivets 24 may be used to secure the angle-iron 20 to the member 10. As will be seen by reference to Fig. 1, the members 21 extend transversely between the side posts 11 of the head piece or foot piece and thus stiffen the entire structure against vibration and wabbling.

The members 16 are connected with the members 10 by passing the heads 14 through the enlarged ends of the key-hole slots 17 and the webs *d* into surface engagement with the webs *b*, after which the members 16 are moved downwardly to bring the studs 13

into the reduced ends of said slots 17. Because of the tapering form of these reduced portions of said slots 17 the studs 13 may be wedged therein and thus frictionally hold the same against unintentional shifting in said slots 17. In the final connected condition of the parts the transverse or horizontal webs c of the members 16 rest upon the upper edges of the upright webs b of the members 10 and the apertures 18 are in registry with the apertures 15, this condition of the respective parts being duplicated at opposite sides of the head pieces and foot pieces of the bedstead. In order to positively lock the members 10 and 16 against unintentional separation and to permit a lifting force to be exerted upon the side rails 19 without disconnecting said members, bolts 25 may be inserted through said registering apertures 15 and 18 and secured therein by means of wing-nuts 26. In practice the side rails 19, or more specifically, the horizontal webs thereof, provide supports for the customary bed-spring in the usual way.

To disconnect the side rails it is simply necessary to remove the bolts 25 and then lift up on the side rails 19 to bring the studs 13 out of the reduced portions of the key-hole slots 17 and into the enlarged ends thereof and then passing said slots outwardly over the heads 14 to completely free the members 16 from the members 10.

It will be understood that although the studs 13 are illustrated as part of the members 10 and the slots 17 as part of the members 16, the location may be reversed with respect to said members without affecting either the efficiency or the operation of the locking means.

In the form illustrated in Figs. 4, 5 and 6 the members 10^a, which correspond to the members 10, are each provided with a pair of key-hole slots 17^a preferably located one above the other in alignment upon the upright web b', which corresponds to the web b of the form first described; in this form also the reduced portions of the key-hole slots 17^a are tapered slightly toward their closed ends. The members 16^a, which correspond to the members 16, are each provided with a pair of studs 13^a having heads 14^a and located upon the upright flanges d' of said members in positions for proper cooperation with the slots 17^a. The upright flanges b' and d of the members 10^a and 16^a, respectively, are provided with apertures 15^a and 18^a adapted to register with each other for the accommodation of bolts 25^a secured in place by wing-nuts 26^a and corresponding in function to the bolts 25 and wing-nuts 26 of the form first described. Otherwise, this form of my invention may be the same as the form thereof illustrated in Figs. 1, 2 and 3.

When constructed as described with respect to Figs. 4, 5 and 6 the invention is capable of combining the side rails 19 with the head and foot pieces in two different positions; that is to say, by bringing the heads 14^a through the slots 17^a and the studs 13^a into the reduced parts thereof, and shown in Figs. 4, 5 and 6, the horizontal webs c' are brought over and into contact with the upper edges of the upright webs b' of the members 10^a in the same way as in Figs. 1, 2 and 3, and the horizontal webs of the side rails 19^a are accordingly uppermost to provide supports for the customary spring in the usual way as in the form first described, the parts being rigidly locked together by the bolts 25^a and wing nuts 26^a. In case it should be desired to utilize the invention to provide supports for bed-slats upon which the spring rests, as is the case in some types of bedsteads, this may be done by reversing the position of the members 16^a with respect to the members 10^a, as shown in Fig. 7, the connection of the two being otherwise effected in the same way. When combined in the manner indicated in Fig. 7, the horizontal webs of the side rails 19^a are lowermost and project inwardly toward each other to provide supports for the opposite ends of the customary wooden bed-slats 27 upon which, in this case, the bed-spring is carried.

In the form last described, when used in either of the positions set forth, a three-point bearing is provided upon which the members 16^a and consequently the side rails 19^a and co-operating parts of the bed are carried; these three points are represented by the two studs 13^a and co-operating parts of the slots 17^a and the bolts 25^a and the co-operating parts of the apertures 15^a and 18^a. When used as in Figs. 4, 5 and 6 the carrying power of these three bearing elements is reinforced by the co-operation of the horizontal webs c' with the upright webs b', the former resting upon the latter when the bed is set up for use. The form of my invention illustrated in Figs. 4 to 7 inclusive may be disconnected to knock down the bed in the same way as described with respect to Figs. 1, 2 and 3. It will be obvious that the location of the studs 13^a and the slots 17^a upon the members 10^a and 16^a may be reversed with respect to these members, if this should be desired, without affecting either the operation or efficiency of this form of my invention.

The invention, in all of its forms, provides a simple and efficient locking means for firmly and detachably uniting the side rails with the head and foot pieces and which may be easily put together and as readily taken apart when occasion requires. When operatively connected, the locking means is incapable of being unintentionally

disconnected either by a lift upon the side rails of the bed or in any other way and thus provides a reliable means whereby the parts are not only locked together but whereby, in addition, the bedstead is automatically squared up and straightened, this being the result of the surface engagement between the webs *b* and *d* in the one form and *b'* and *d'* in the other form shown. The locking means as shown and described is also capable of universal use and does not require any specific construction and arrangement to adapt it only for certain kinds and types of beds. When constructed in the form illustrated in Figs. 4 to 7 inclusive, the locking means is reversible to adapt the side rails for supporting a bed-spring directly or for carrying bed-slats on which the spring is supported, as previously set forth. By constructing the reduced portions of the key-hole slots of tapering form and wedging the studs 13 and 13ª therein the bolts 25 and 25ª and the co-operating wing-nuts 26 and 26ª may, in some cases, be omitted, the frictional engagement of the parts, in such case, being sufficient to maintain the locking means against unintentional separation under all ordinary conditions.

By making all of the elements of the locking means easily disconnectible and separable, the bed may readily be maintained in a sanitary condition. The provision of the transverse members 21 increases the rigidity of the bedstead against twisting or distorting, this being due to the fact that said members are connected directly to one element of the locking means, which elements themselves are connected directly to the upright posts of the head pieces and foot pieces of the bedsteads.

Various changes in the specific form shown and described may be made within the scope of the claims without departing from the spirit of my invention.

I claim:

1. A locking means for bedsteads comprising an upright locking member having a vertical attaching flange adapted for attachment to an end piece of a bedstead and a vertical connecting flange extending transversely to said attaching flange and having its free vertical edge unobstructed, a lug projecting perpendicularly from the face of said attaching flange and providing a connection for one end of a transverse strengthening member, a co-operating locking member having a vertical attaching flange arranged to lie in surface engagement with the attaching flange of said first-named locking member, one of said attaching flanges being provided with upright key-hole slots, headed studs upon the other attaching flange adapted to fit into said slots to lock said locking members together and a horizontal flange extending transversely to said second attaching flange and arranged to project over one of the horizontal edges of said first attaching flange.

2. In a bedstead the combination of an end piece, upright locking members each having a vertical attaching flange secured to said end piece at opposite points and a vertical connecting flange extending from said attaching flange perpendicular to said end piece and having its free vertical edge unobstructed, a lug projecting perpendicularly from the face of each attaching flange, a cross-bar extending between and having its ends secured to said lugs, co-operating locking members each having a vertical attaching flange lying in surface engagement with the attaching flange of the first locking member and each having a horizontal flange projecting over a horizontal edge of said first attaching flange, one of said attaching flanges being provided with upright key-hole slots, headed studs upon the other attaching flange fitting said slots to lock said locking members together and flanged side rails each having their flanges secured to the corresponding flanges of said second locking member.

In testimony whereof I have hereunto set my hand.

AARON BARASHICK.