

ANTONIO GOVERNALE & ANGELO GOVERNALE.

BEDSTEAD CONSTRUCTION.

APPLICATION FILED JAN. 15, 1913.

1,060,180.

Patented Apr. 29, 1913.

2 SHEETS-SHEET 1.

Fig. 1.

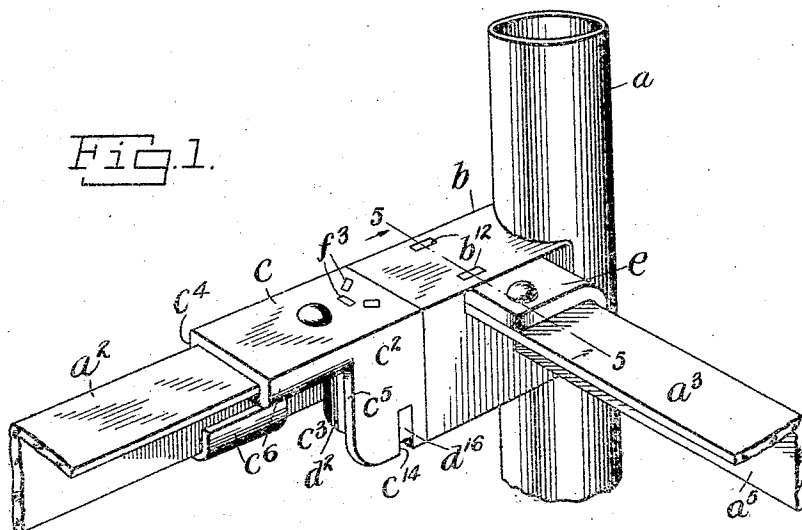


Fig. 2.

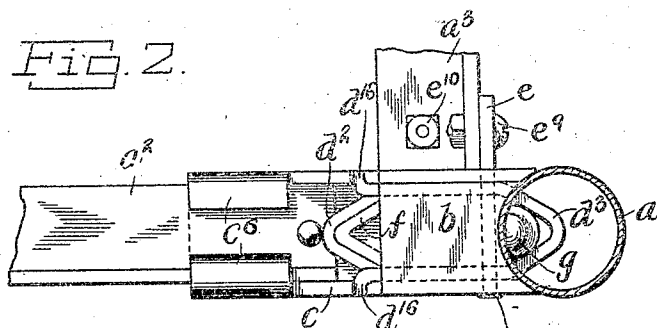


Fig. 3.

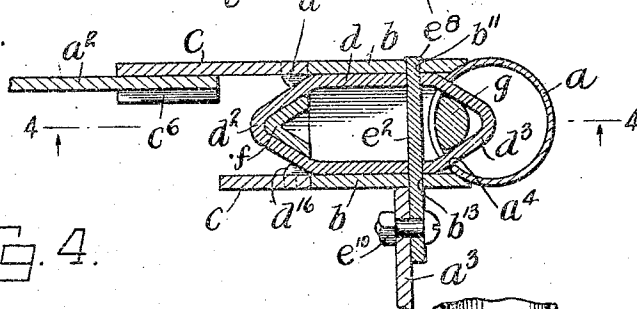
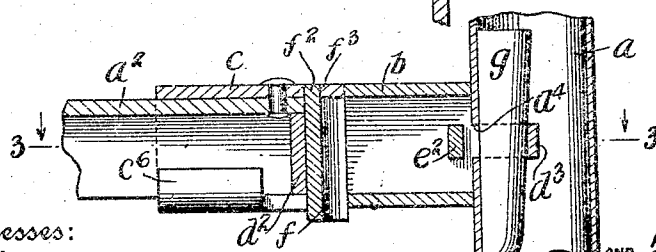


Fig. 4.



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2 SHEETS-SHEET 2.

Fig. 5.

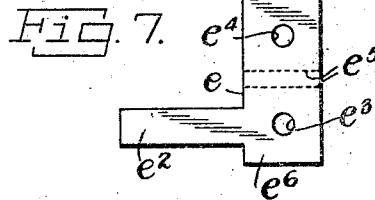
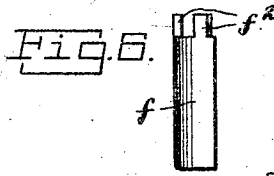
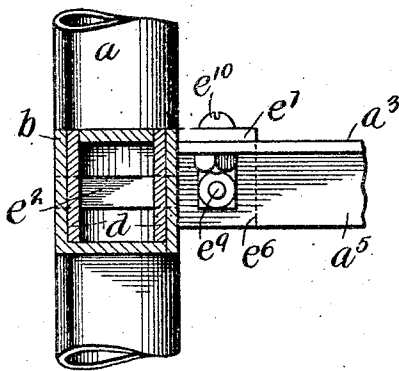


Fig. 8.

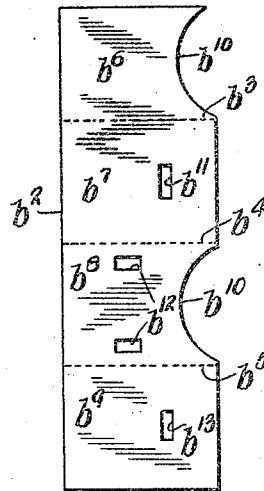
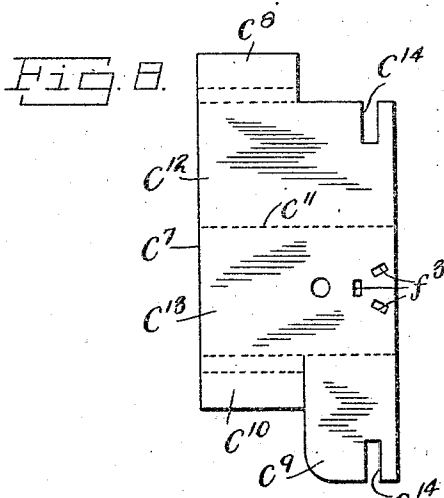
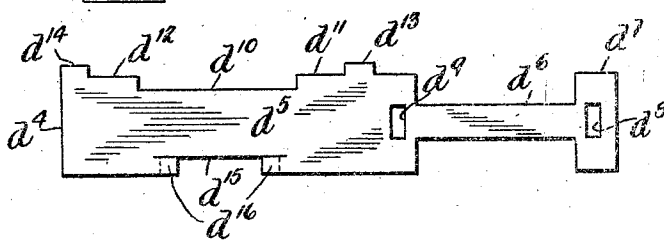


Fig. 10.



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BEDSTEAD CONSTRUCTION.

1,060,180.

Specification of Letters Patent.

Patented Apr. 29, 1913.

Application filed January 15, 1913. Serial No. 742,163.

To all whom it may concern:

Be it known that we, ANTONIO GOVERNALE and ANGELO GOVERNALE, respectively, citizens of the United States and Italy, and residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Bedstead Constructions, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to bedsteads, and particularly to the corner construction thereof, and the object thereof is to provide a strong, simple and effective means for securing the side and end rails of a bedstead together and to the corner posts, and by means of which said parts may be easily connected and disconnected whenever desired.

The invention is fully disclosed in the following specification of which the accompanying drawings form a part, in which the separate parts of our invention are designated by suitable reference characters in each of the views, and in which:—

Figure 1 is a perspective view of one of the corner posts of a bedstead and showing parts of one of the side rails and one end rail, and means for connecting said rails and connecting the said rails with the corner posts; Fig. 2 a bottom plan view of the construction shown in Fig. 1; Fig. 3 a section on the line 3—3 of Fig. 1; Fig. 4 a section on the line 4—4 of Fig. 3; Fig. 5 a partial section on the line 5—5 of Fig. 1; Fig. 6 a side view of a locking plug employed in connecting the side rail with a main corner coupling which in turn is connected with the post and with which the end rail is connected; Fig. 7 a face view of a tie plate used as a part of the construction for connecting the end rail with the main corner coupling; Fig. 8 a face view of a blank used in forming a supplemental corner coupling with which the side rail is directly connected, and which is detachably connected with the main corner coupling; Fig. 9 a face view of a blank from which the main corner coupling is formed, and; Fig. 10 a face view of a blank from which is formed a link-shaped coupling device used in the main corner coupling for securing it and the supplemental coupling together, and for securing the main coupling member to the post.

In the accompanying drawings, we have shown at a one of the corner posts of a bed-

stead which is tubular in form, at a^2 one of the side rails and at a^3 one of the end rails, said side and end rails being composed of angle bars which are triangular in form or L-shaped in cross section.

In the practice of our invention we provide a main box-shaped coupling b which is rectangular in cross section and a supplemental coupling c comprising a box-shaped body portion c^2 which is rectangular in cross section and open at the bottom, as shown at c^3 , and provided with top and outer side extensions c^4 , the inner side being cut away to form a right-angled notch c^5 and the inner edge or the top of the extension c^4 being provided with inwardly bent keepers c^6 into which the adjacent end of the side rail a^2 is inserted, and in practice, the keepers c^6 are compressed, by means of a suitable die or press, onto the parts of the rail a^2 so as to secure and hold the said rail.

The main coupling b is made from a blank b^2 , shown in Fig. 9, said blank being oblong and rectangular in form and being folded on lines b^3 — b^4 and b^5 , which divide said blank into four similar parts b^6 — b^7 — b^8 and b^9 , of which the parts b^6 and b^7 form the top and bottom respectively of the coupling b and are provided with edge notches b^{10} whereby the outer end of the coupling is made to closely fit the post a , and the part b^7 is provided with an oblong longitudinal aperture b^{11} , the part b^8 with two transverse oblong apertures b^{12} , and the part b^9 with an oblong aperture b^{13} , and the part b^9 of the blank forms the outer side of the coupling b while the part b^6 forms the inner side of said coupling with which the end rail a^3 is connected.

The supplemental coupling c is formed from the blank c^1 shown in Fig. 8, and which comprises a main body part provided at one end corner with a folding extension c^8 and at the other end and diagonally opposite corner with a longer folding extension c^9 adjacent to which is a shorter folding extension c^{10} similar to the extension c^8 at the opposite end.

The body portion of the blank c^1 is folded along a line c^{11} to form two main parts c^{12} and c^{13} , and the part c^{12} forms the outer side of the body of the coupling and the outer side of the extensions c^4 thereof, while the part c^{13} forms the top of the body of the coupling and the top of the extensions c^4 thereof. The end folding extensions c^8 and

c^{10} of the blank form the keepers c^6 of the extension c^4 of the coupling and into which the side rail a^2 is inserted, while the folding end member c^9 of the blank forms the inner side of the body of said supplemental coupling. The parts c^7 and c^{12} of the blank c^7 are also provided with deep notches or recesses c^{14} which are shown in Fig. 1, and the function of which will be hereinafter described.

We also provide an oblong link-shaped coupling device d which is placed in and is longer than the main coupling b , and which is provided with V-shaped ends d^2 and d^3 , the first of which extends into the body of the supplemental coupling c , and the latter of which passes through a transverse slot a^4 in the post a . The link-shaped coupling device d is formed from the blank d^4 shown in Fig. 10, and which comprises an oblong body portion d^5 provided at one end with a neck d^6 having a cross head d^7 in which is formed a transverse slot d^8 , and the end of the body portion d^5 adjacent to the neck d^6 is also provided with a transverse slot d^9 . The body d^5 is also provided at one side edge thereof with a longitudinal notch d^{10} , and widened end parts d^{11} and d^{12} , the widened end part d^{11} being that in which the slot d^9 is formed and being longer than the other widened end part d^{12} , and the end part d^{11} is provided approximately centrally thereof with a projecting lug d^{13} while the end part d^{12} is provided with a projecting lug d^{14} .

The blank d^4 is folded, as shown in Fig. 3, to form the coupling link member d , and in this operation the neck d^6 of the blank forms the V-shaped end d^3 of said coupling link member which extends into the post a , while the narrower part of the body portion d^5 forms the V-shaped end member d^2 which extends into the coupling c and the lugs d^{13} and d^{14} pass through the apertures b^{12} in the top of the main coupling b and are riveted therein. The blank d^4 is also provided in the side edge thereof opposite the longitudinal notch d^{10} with a similar, but shorter longitudinal notch d^{15} , at the ends of which are tongues d^{16} adapted to be folded outwardly and to form corresponding lock hooks which, on the assembling of the parts as hereinafter described, enter the notches or recesses c^{14} in the sides of the coupling member c and aid in binding the parts together.

We also provide a tie plate e , shown detached in Fig. 7, and in use in Figs. 1 to 5 inclusive, and one end portion of this tie plate is provided with a projecting tongue e^2 . The tie plate e is oblong and rectangular in form and the opposite end portions thereof are provided with holes e^4 and e^5 , and said tie plate is provided centrally with folding lines e^3 and is adapted to be folded into rightangled form, and in assembling

the various parts, the end portion e^6 thereof fits on the flange a^5 of the end rail a^3 , while the end portion e^7 thereof fits on the top flange of said end rail and the tongue e^2 is passed outwardly through the apertures b^{12} and b^{11} in the inner and outer sides of the main coupling b and through the apertures d^8 and d^9 in the link coupling d and is riveted as shown at e^8 on the outer side of the said coupling d , and the parts e^9 and e^7 of the tie plate e are secured to the parts of the end rail a^3 by bolts or screws passed through the holes e^4 and e^5 in the tie plate and through the corresponding parts of the end rail, as shown at e^9 and e^{10} in Fig. 5.

We also provide a coupling pin f used in connection with the link-shaped device d for securing the supplemental coupling c to the main coupling b , and which is shown detached in Fig. 6 and in use in Figs. 1 to 4 inclusive. This coupling pin f is stamped from sheet steel and is V-shaped in cross section and the head or upper end thereof is provided with three studs f^2 which are passed through corresponding apertures f^3 in the top of the supplemental coupling c and riveted therein or thereto, this construction being clearly shown in Figs. 1 and 4.

With the construction described and claimed, it will be seen that the supplemental coupling c is rigidly secured to the side rail a^2 , and said supplemental coupling may be quickly, easily and rigidly secured to the main coupling b by pressing the pin f down through the V-shaped end d^2 of the coupling link d , and the main coupling b may be quickly, easily and rigidly secured to the post a by passing the V-shaped end d^3 of the link coupling d into said post, as shown in Figs. 2, 3 and 4, and then dropping a wedge-shaped key pin g down through the V-shaped end d^3 of the link-shaped coupling, as shown in said figures.

In connecting the supplemental coupling c with the main coupling b as above described, the lock hooks formed by the tongues d^{16} on the link-shaped coupling member d enter notches or recesses c^{14} in the sides of the supplemental coupling c and aid in binding said coupling to and in connection with the main coupling b .

It will be understood that the construction at each corner of the bedstead frame is the same, and the side rails a^2 with the coupling c may be easily detached from the main corner coupling b whenever desired by simply lifting said rails or supplemental coupling out of position, and while the end rails a^3 are secured in place only by the bolts or screws e^9 and e^{10} , they may be detached from the main coupling b by removing said bolts or screws, and the main coupling b may be detached from the post a by removing the wedge-shaped keys g . In practice, however, after the main couplings are con-

5 nected with the posts *a* they are usually left in said connection, and the side and end rails may be connected with the said main couplings and detached therefrom whenever desired.

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

10 1. The herein described means for connecting the side and end rails of a bedstead with the corner posts thereof, said corner posts being tubular in form: said means consisting of main corner couplings and supplemental couplings detachably connected therewith, and to which the side rails are 15 secured, said main corner couplings being provided with link-shaped coupling devices which are secured therein and provided with end projections, the end projections at one end of said link-shaped coupling devices being 20 passed into the posts and the end projections at the opposite ends of said link-shaped coupling devices being passed into the supplemental couplings, said supplemental couplings being provided with coupling 25 pins which pass downwardly through the ends of the link-shaped coupling devices which extend therein, and the ends of said link-shaped coupling devices which are 30 passed into the posts being also provided with key pins which are passed therethrough and the end rails of the bedstead being detachably connected with the main corner couplings.

35 2. The herein described means for connecting the side and end rails of a bedstead with the corner posts thereof, said corner

posts being tubular in form said means consisting of main corner couplings and supplemental couplings detachably connected 40 therewith and to which the side rails are secured, said main corner couplings being provided with link-shaped coupling devices which are secured therein and provided with end projections, the projections at one end 45 of said link-shaped coupling devices being passed into the posts, and the projections at the opposite ends of said link-shaped coupling devices being passed into the supplemental couplings, said supplemental couplings being provided with coupling pins 50 which pass downwardly through the end projections of the link-shaped coupling devices which extend therein, and said link-shaped coupling devices being provided at 55 their sides with outwardly directed lock tongues adapted to enter corresponding recesses in the bottoms of the sides of the supplemental couplings, and the end projections of said link-shaped coupling devices 60 which are passed into the posts being also provided with key pins which are passed therethrough, and the end rails of the bedstead being secured to the main corner 65 couplings.

In testimony that we claim the foregoing as our invention we have signed our names in presence of the subscribing witnesses this 13th day of January 1913.

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ANGELO GOVERNALE.

Witnesses:

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H. E. THOMPSON.