

L. FRANK.
CORNER FASTENING FOR BEDSTEADS.
APPLICATION FILED APR. 7, 1913.

1,063,425.

Patented June 3, 1913.

2 SHEETS—SHEET 1.

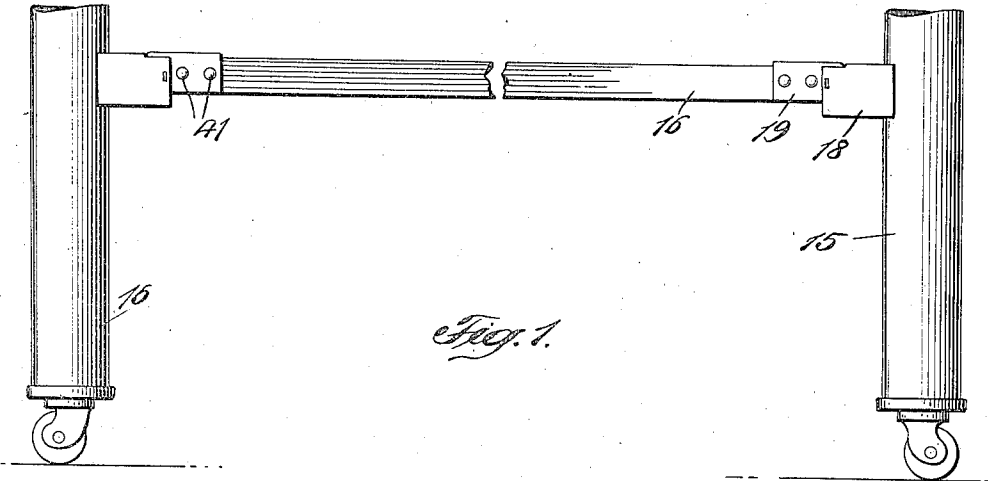


Fig. 1.

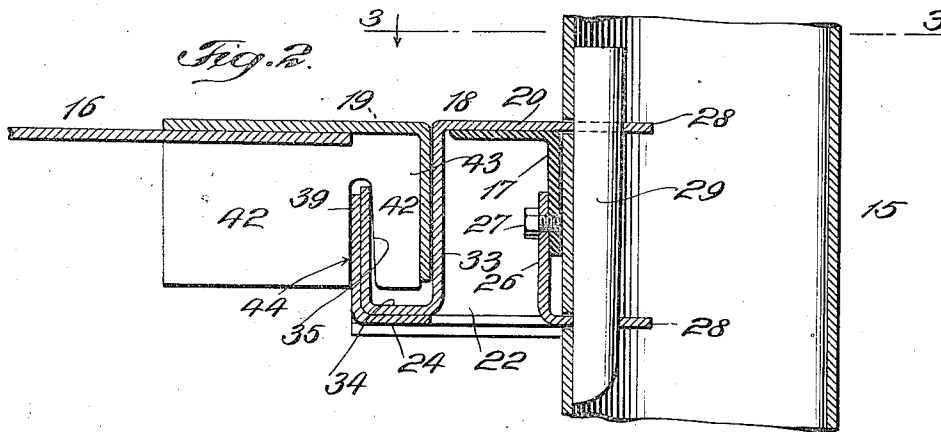


Fig. 2.

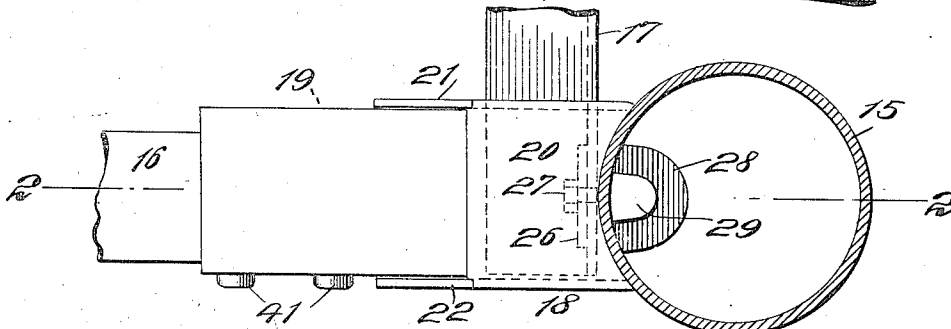


Fig. 3.

Witnesses:
Arthur Marion.

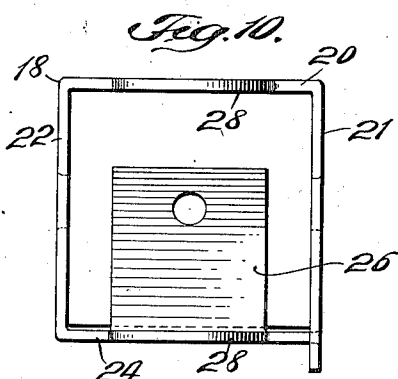
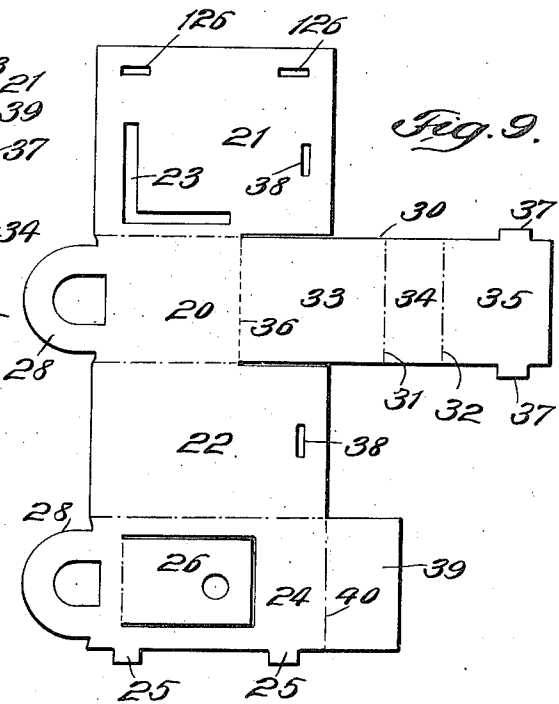
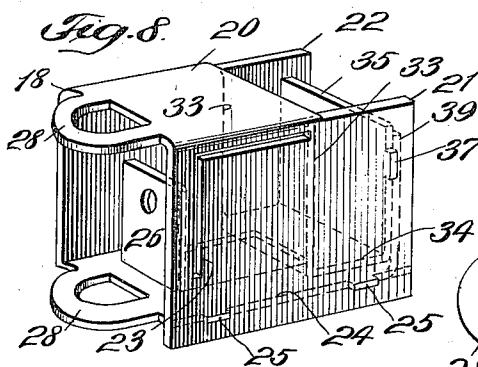
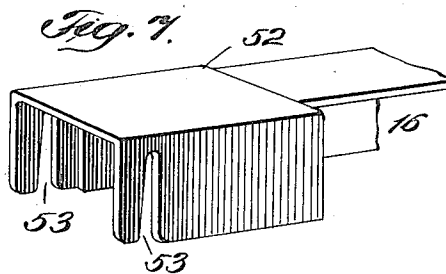
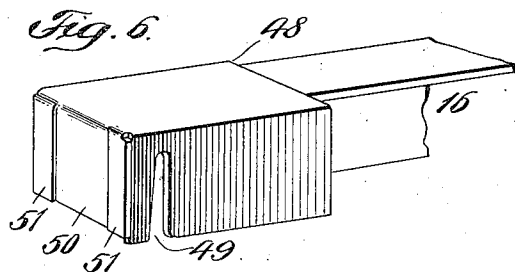
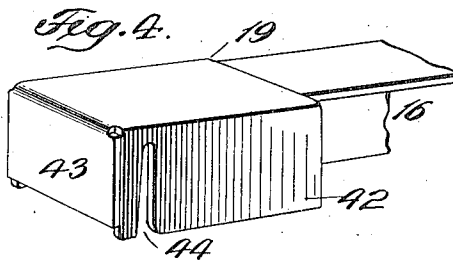
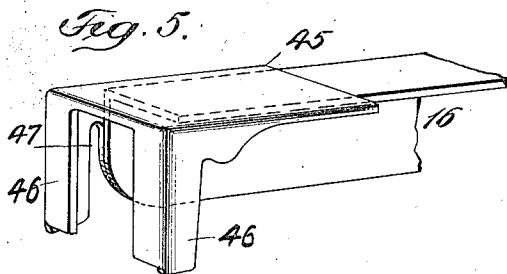
Louis Frank, Inventor
By his Attorney *Chas. C. Hill*

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2 SHEETS—SHEET 2.



Witnesses:
Julius H. Hutz.
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UNITED STATES PATENT OFFICE.

LOUIS FRANK, OF BROOKLYN, NEW YORK.

CORNER-FASTENING FOR BEDSTEADS.

1,063,425

Specification of Letters Patent.

Patented June 3, 1913.

Application filed April 7, 1913. Serial No. 759,348.

To all whom it may concern:

Be it known that I, LOUIS FRANK, a subject of the Czar of Russia, and a resident of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Corner-Fastenings for Bedsteads, of which the following is a specification.

The invention pertains more particularly to corner fastenings for metal bedsteads, and the purpose of the invention is to provide a fastener whose members are formed of sheet steel and are not only of extremely durable character but capable of convenient and efficient use.

A further purpose of the invention is to provide a corner fastening which will present smooth exterior surfaces and not mar the appearance of the other portions of a bedstead.

The corner fastening of my invention comprises two interlocking parts, each preferably formed in one integral piece of sheet steel bent into the special shape hereinafter described, and one of said parts being adapted to engage and be secured to a corner-post and to receive one end of the transverse rail of the head or foot portion of the frame of the bedstead, while the other interlocking part is secured to the end of the side rail of the bedstead and has at its outer end a hook portion to enter and become firmly engaged with that member of the fastening which is secured to the post.

The details of the interlocking members of the fastening will be explained hereinafter in connection with the drawings forming a part of this application and in which:

Figure 1 is a side elevation, partly broken away, of a bedstead equipped with corner fastenings embodying my invention; Fig. 2 is a central vertical longitudinal section through a portion of a bedstead-post and side rail, with the corner fastening members composing my invention shown as connecting said post and side rail, the section being on the dotted line 2—2 of Fig. 3; Fig. 3 is a sectional view through the same on the dotted line 3—3 of Fig. 2, the transverse head rail and longitudinal side rail being partly broken away; Fig. 4 is a perspective view of one end portion of a side rail of a bedstead having secured thereto one member of the corner fastening of my invention; Figs. 5, 6 and 7 are corresponding perspective views showing some modifications in

details of that member of the corner fastening carried by the side rails; Fig. 8 is a perspective view of that member of the corner fastening to be secured to the post and adapted on its side to receive the transverse end rail of the bedstead and at its outer or free end to receive and interlock with the fastening member carried by the side rail; Fig. 9 represents in top elevation the metal blank from which, by bending, the fastening member illustrated in Fig. 8 is produced, and Fig. 10 is an end view, taken from the left hand end of Fig. 8, of the fastening member produced from the blank shown in Fig. 9.

In the drawings, 15 designates the corner-posts, 16 the usual angle iron side rail, and 17 the customary angle iron transverse end rail of a bedstead. The two members of my corner fastening are denoted by the reference numerals 18, 19, respectively, the member 18 being connected with the corner-post and receiving one end of the end rail 17, and the member 19 being bolted or otherwise secured to the end of the side rail 16 and adapted to detachably interlock with the member 18.

The member 18 is formed from one integral sheet steel blank of the character shown in Fig. 9, in which the dotted lines indicate the fold lines of the blank on which the blank is folded to transform it into the construction shown in Figs. 8 and 10. The member 18 comprises integrally a top, and vertical sides, the side 22 presenting an outer plain vertical surface and the side 21 having formed in it a right-angular slot 23 to receive the end of the end rail 17 of the bedstead. The lower edge of the side 22 connects with a bottom section 24 of the blank and the edge of this section 24 is formed with integral lugs or projections 25 which enter and are upset within correspondingly shaped openings 26 formed in the side member or section 21, as will be understood on reference to Figs. 8 and 9, whereby the blank is securely fastened in rectangular outline. The section 24 representing the bottom of the fastening member 18 has a lip 26 cut therein, and said lip is bent upwardly at its outer end to constitute a rigid plate standing immediately at the front of the vertical member of the angle iron end rail 17, so that when the said end rail is inserted through the right-angular slot 23 in the side 21 it will lie between

the post 15 and said lip 26, as shown in Fig. 2, in which it will be seen that the end rail 17 at its upper horizontal flange engages the lower surface of the top 20 of the fastening member 18 and at its vertical flange fits closely between the post 15 and lip 26 and is secured to said lip by means of a bolt 27 which extends through a hole in the lip 26 and engages a threaded hole in the rail 17. The end rail 17 is, at its end, thus supported in the right-angular slot 23 of the side 21, but is further fastened by the bolt 27 and its relation to the post 15 and top 20 of the member 18. The top 20 and bottom 24 of the member 18 have at their outer edges corresponding apertured lugs 28 which are inserted through slots formed in the post 15 and receive a vertical wedge 29, whereby said member 18 becomes fastened to the post in a manner well understood in this art.

That portion of the blank constituting the top 20 is formed with an extending tongue portion 30 subdivided on dotted lines 31—32 into sections 33, 34, 35, and said portion 30, when folded downwardly on the dotted line 36, affords in the section 33 an inwardly set front for the member 18, while the section 34 of said portion 30 forms a lower layer bearing upon the upper surface of the bottom 24 and the section 35, when bent upwardly on the dotted line 32, presents what may be termed a vertical hook portion whose upper edge is below the upper edge of the sides 21, 22. The portion 35 is separated by a vertical space from the section 33, as shown in Fig. 1, and into this space is passed certain engaging parts of the fastening member 19 when the two members of the fastener are to be interlocked. The hook portion 35 is between the sides 21, 22 and preferably set inwardly from the vertical edges of the same. The section 35 is formed at its opposite side edges with lugs 37 which, when the blank is folded to convert it into the fastening member 18, are inserted into and headed within holes 38 formed in the side sections 21, 22, thereby aiding in locking said side sections together and in rigidly maintaining the section 35 in vertical position. I have formed the hook section 35 both of one layer of material and of two layers of material, in accordance with the size of the bedstead employing the bed fastening, and when the hook section 35 is to be formed of two layers of material, I add to the section 24 of the blank an extension 39, which when turned upwardly from the bottom section 24 on the fold line 40, will lie at the outer side of and closely against the hook section 35, as shown in Figs. 1 and 8, thereby increasing the thickness of the hook section and aiding in rigidly supporting the same and in enabling the member 18 to properly sustain the weight

exerted on it by the fastening member 19. When the extension 39 is omitted from the bottom section 24, then the hook section 35 will be of a single layer. The blank shown in Fig. 9 may, therefore, be folded into the rectangular fastening member 18 shown in Fig. 8 and afforded in one integral piece of sheet steel the top 20, bottom 24, vertical parallel sides 21, 22, lugs 28 to enter the post 15, a lip or plate 26 to which the end of the end rail 17 may be secured, and a forward hook construction to receive the fastening member 19.

The fastening member 19 will be formed of steel and fastened by rivets or bolts 41 or otherwise upon the end of the side rail 16, and said member 19 extends across the top and down the sides of said side rail and has at its outer end a downwardly projecting portion composed partly of the sides 42 and the end 43 of said member 19 to enter between the sections 33, 35 of the member 18 and thereby interlock with said member, as shown in Fig. 2. The section 35 of the member 18 affords an upwardly extending hook portion and the outer end of the member 19 a downwardly extending hook member to tightly fit between the sections 33, 35 of the member 18 with, by preference, a wedging action. The sides 42 of the member 19 will preferably be slotted, as at 44, to form the downwardly projecting hook portion and the slots 44 should only be of sufficient width to snugly engage the outer vertical front part of the hook section on the member 18, whether said hook section be of one layer or two layers. The fastening member 19 is of box-like construction and when engaged with the member 18 constitutes, in the preferred construction, a substantial continuation, especially at the top, of the surfaces thereof. I prefer to provide the fastening member 19 with the slots 44, as shown in Fig. 4, so that there may not only be a binding action of the hook portion of the member 19 at the inner side of the hook portion of the member 18, but that in the slots 44 there shall be a binding or wedging action against the front and rear surfaces of the hook portion of the member 18, but I do not desire to limit the invention to the provision of the slots 44 in the sides of the member 19, since said member admits of various modifications without impairing its function or the function of the member 18. For instance, I may construct the interlocking member carried by the side rail in the manner illustrated in Fig. 5 in which I designate said member, being a modification, 45 and which member is formed at its outer end with downwardly projecting hook portions 46 to pass within the hook portion of the member 18. The member 45 at its outer side is formed with a slot 47 to straddle the hook section of the member 18, and

in that respect there is not a great deal of difference between the member 19, shown in Figs. 1 and 4, and the member 45, shown in Fig. 5.

5 In Fig. 6 I illustrate the side rail fastening member 48 as formed in its sides with slots 49 and as having the intermediate portion 50 of its end depressed inwardly to leave shoulders 51 to engage the section 33 of the member 18 instead of having the entire end surface of said member 48 engage the section 33.

15 The rail fastening member 52, shown in Fig. 7, is formed in its sides with the slots 53 and with no downwardly depending front or outer end plate, the end edges of the sides of the member 52 being depended on to engage the section 33 of the fastening member 18. The several side rail fastening members 19, 45, 48 and 52 perform corresponding functions, and while I prefer the construction of member 19, it will be a matter of choice as to which of the several side-rail members will be made use of.

25 My invention resides more largely in the fastening member 18 and in the provision for coöperation therewith of a suitable side rail fastening member adapted to interlock with the outer hook-portion of the member 18. The member 18 as constructed by me is of extremely durable character and capable of efficient and convenient use.

What I claim as my invention and desire to secure by Letters Patent, is:

35 1. A corner-fastening for bedsteads comprising a member connected with the side-rail having a downwardly projecting hook-portion and a member connected with the corner-post having an upwardly projecting hook-portion to receive and interlock with said hook-portion of the side-rail member, said post-member being formed of sheet metal and comprising a top, opposite sides the inner one of which is adapted to receive the end of a bedstead end-rail, a bottom having near the corner-post an upwardly turned lip to which the end of said end-rail may be secured, and a part connected with said top constituting said upwardly projecting hook-portion and comprising a front section extending downwardly from the end of said top, a horizontal section extending from the lower end of said front section and a member extending upwardly from said horizontal section between said sides.

50 2. A corner-fastening for bedsteads comprising a member connected with the side-rail having a downwardly projecting hook-portion and a member connected with the corner-post having an upwardly projecting hook-portion to receive and interlock with said hook-portion of the side-rail member, said post-member being formed of sheet metal and comprising a top, opposite sides the inner one of which is adapted to receive

the end of a bedstead end-rail, a bottom having near the corner-post an upwardly turned lip to which the end of said end-rail may be secured, and a part connected with said top constituting said upwardly projecting hook-portion and comprising a front section extending downwardly from the end of said top, a horizontal section extending from the lower end of said front section and a member extending upwardly from said horizontal section between said sides and having lugs at its side edges fastened within holes provided to receive them in said sides.

3. A corner-fastening for bedsteads comprising a member connected with the side-rail having a downwardly projecting hook-portion and a member connected with the corner-post having an upwardly projecting hook-portion to receive and interlock with said hook-portion of the side-rail member, said post-member being formed of sheet metal and comprising a top, opposite sides the inner one of which is adapted to receive the end of a bedstead end-rail, a bottom having near the corner-post an upwardly turned lip to which the end of said end-rail is secured, and a part connected with said top constituting said upwardly projecting hook-portion and comprising a front section extending downwardly from the end of said top, a horizontal section extending from the lower end of said front section and a member extending upwardly from said horizontal section between said sides and having lugs at its side edges fastened within holes provided to receive them in said sides, and said bottom at one edge being integral with one of said sides and having at its opposite edge lugs fastened within holes provided to receive them in the other of said sides.

4. A corner-fastening for bedsteads comprising a member connected with the side-rail having a downwardly projecting hook-portion and a member connected with the corner-post having an upwardly projecting hook-portion to receive and interlock with said hook-portion of the side-rail member, said post-member being formed of sheet metal and comprising a top, and opposite sides the inner one of which is adapted to receive the end of a bedstead end-rail, a bottom having near the corner-post an upwardly turned lip to which the end of said end-rail may be secured, and a part connected with said top constituting said upwardly projecting hook-portion and comprising a front section extending downwardly from the end of said top, a horizontal section extending from the lower end of said front section and a member extending upwardly from said horizontal section between said sides, and said bottom at its outer end having an upwardly turned section close against the outer face of said upwardly extending member of said upwardly

projecting hook-portions and coöperating therewith.

5. A corner-fastening for bedsteads comprising a member connected with the side-rail having a downwardly projecting hook-portion and a member connected with the corner-post having an upwardly projecting hook-portion to receive and interlock with said hook-portion of the side-rail member, said post-member being formed of sheet metal and comprising a top, and opposite sides the inner one of which is adapted to receive the end of a bedstead end-rail, a bottom having near the corner-post an upwardly turned lip to which the end of said end-rail may be secured, and a part connected with said top constituting said upwardly projecting hook-portion and comprising a front section extending downwardly from the end of said top, a horizontal section extending from the lower end of said front section and a member extending upwardly from said horizontal section between said sides, and said side-rail member being formed of sheet metal and having a top and vertical sides which are slotted to create the said downwardly projecting hook-portion of said member.

6. A corner-fastening for bedsteads comprising a member connected with the side-rail having a downwardly projecting hook-portion and a member connected with the corner-post having an upwardly projecting hook-portion to receive and interlock with said hook-portion of the side-rail member,

said post-member being formed of sheet metal and comprising a top, and opposite sides the inner one of which has an opening to admit the end of an angle-iron bedstead end-rail, and a bottom having near the corner-post an upwardly turned lip to which said end of said end-rail may be secured.

7. A corner-fastening for bedsteads comprising a member connected with the side-rail having a downwardly projecting hook-portion and a member connected with the corner-post having an upwardly projecting hook-portion to receive and interlock with said hook-portion of the side-rail member, said post-member being formed of sheet metal and comprising a top, and opposite sides the inner one of which has an opening to admit the end of an angle-iron bedstead end-rail, and a bottom having near the corner-post an upwardly turned lip to which said end of said end-rail may be secured, and said side-rail member being formed of sheet metal and having a top, a downwardly extending outer end and vertical sides which are slotted near said end to straddle the upwardly extending hook-portion of said post-member.

Signed at New York city, in the county of New York and State of New York, this 3rd day of April, A. D. 1913.

LOUIS FRANK.

Witnesses:

ARTHUR MARION,
CHAS. C. GILL.