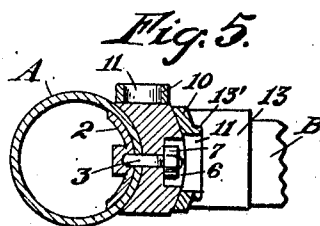
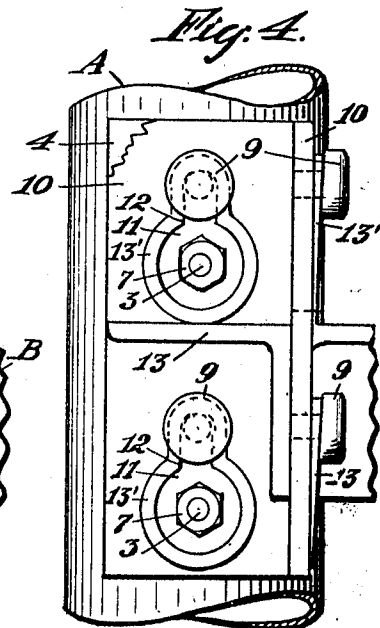
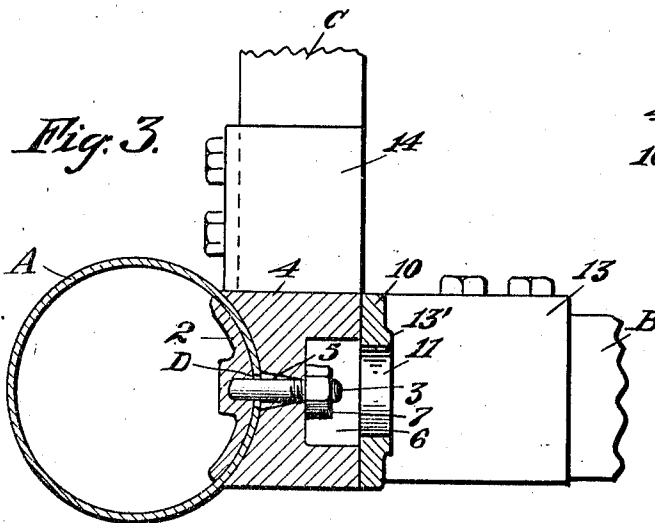
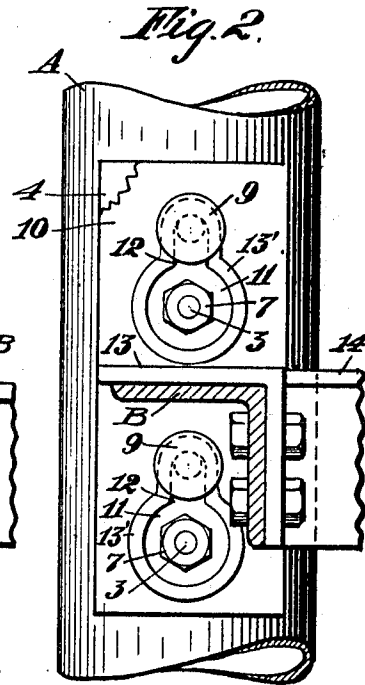
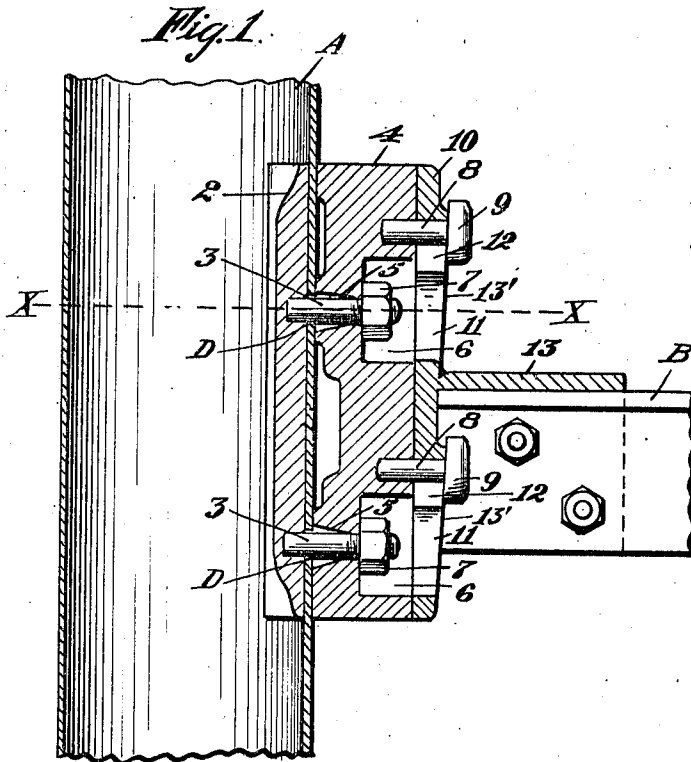


J. CAPOZZI & L. KESER.
BED RAIL FASTENING.
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1,031,242.

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Witnesses;
R. S. Berry,
Wm. Kershner.

Inventors;
John Capozzi,
Louis Keser
By J. H. Strong
Atty.

UNITED STATES PATENT OFFICE.

JOHN CAPOZZI, OF SAN FRANCISCO, AND LOUIS KESER, OF RICHMOND, CALIFORNIA.

BED-RAIL FASTENING.

1,031,242.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that we, JOHN CAPOZZI, of the city and county of San Francisco, State of California, and LOUIS KESER, of Richmond, Contra Costa county, State of California, both citizens of the United States, have invented new and useful Improvements in Bed-Rail Fastenings, of which the following is a specification.

10 This invention relates to a device for attaching bed-rails to the bed-posts and particularly pertains to a means for detachably securing the side and end rails of a bed to hollow or tubular posts.

15 It is the object of this invention to provide a simple and efficient attachment for tubular bed-posts for supporting the side and end rails of the bed, and which attachment is adapted to be easily and readily attached to the tubular posts and removed therefrom.

20 A further object is to provide a means for fastening the bed-rails to the post which will securely retain the rails against displacement and which will prevent the bed from being twisted from side to side and will rigidly hold the side and end rails of the bed at right angles to each other.

25 Other objects will appear in the following specification.

30 The invention consists of the parts and the construction and combination of parts as hereinafter more fully described and claimed, having reference to the accompanying drawings, in which—

35 Figure 1 is a vertical section of the invention as applied. Fig. 2 is a section through the side rail of the bed showing the invention in elevation. Fig. 3 is a horizontal section on the line X—X of Fig. 1. Fig. 4 is an elevational view of a modified form of the invention. Fig. 5 is a horizontal section of another modified form of the invention.

40 In the drawings A represents a tubular bed-post, such as is employed in the construction of iron and brass beds and to which the side and end rails B—C, respectively, of the bed are designed to be attached. Our present invention resides in an attachment for the posts A by means of which the rails B and C of the bed may be secured to the posts A and removed therefrom. This attachment is preferably constructed of cast metal and is formed in three pieces, one of which is designed to be inserted in the interior of the post A; another to be

attached to the exterior of the post A and the third to be mounted on the end of the rail to be attached to the post. The first named member comprises a segmental plate 2, the curved face of which conforms to the curvature of the inner face of the post A, and is designed to be placed in contact therewith as shown in Figs. 1 and 3. Mounted on the curved face of the plate 2 are studs 3, which are threaded on their outer ends and extend through perforations D, formed in the post A and project a short distance beyond the outer face of the post.

45 The member to be attached to the exterior of the post A consists of a block 4, one face of which is concaved longitudinally to conform to the outer circumferential face of the post A, and formed in the block 4 are perforations 5, through which the threaded studs 3 are adapted to extend. The face of the block 4 opposite the concaved face is preferably flat, as shown in Fig. 3, but it may be formed on a curve as shown in Fig. 5 if desired. Recesses 6 are formed in the outer face of the block into which the outer ends of the studs 5 extend, and nuts 7 are screwed on the threaded ends of the studs in the recesses 6, to bind the members 2 and 4 together on the post A, as shown in Figs. 1 and 2.

50 Mounted on the outer face of the block 4 is a pair of outwardly projecting pins 8, which are formed with heads 9 on their outer ends; the inner or rear face of the heads 9 being disposed a short distance from the outer face of the block 4.

55 The member to be attached to the bed-rail B or C, comprises a plate 10, the inner face of which is designed to contact the outer face of the block 4 and conforms thereto, in which plate perforations 11 are formed. The perforations 11 are of such diameter as to permit the heads 9 on the pins 8, being passed therethrough, and connecting with the perforations 11 are vertically extending slots 12, having a lateral breadth corresponding, approximately, to the diameters of the pins 8. An angular bracket 13, is formed on the outer face of the plate 10, which is bolted or otherwise attached to the bed-rails B—C.

60 Formed on the outer face of the plate 10, and surrounding the perforations 11 and the slots 12, are outwardly extending flanges 13', which project a short distance from the face of the plate and are tapered from their upper to their lower ends, as shown in Fig.

1, to form keys or wedges which are adapted to contact the rear faces of the heads 9 on the pins 8, and act to crowd the plate 10 tight against the block 4 and prevent it from becoming inadvertently loosened and to obviate rattling.

In the operation of the invention, when it is desired to attach the side rail B to the post A, the plate 10 is secured to the block 4 by passing the perforations 11 over the heads 9 on the pins 8 and moving the plate 10 downward so as to dispose the pins 8 in the slots 12, as shown in Figs. 1 and 2; the wedge shaped flanges 13' acting to bind the plate to the block as before described.

If desired, the block 4 may be provided with pins 8 on one of its sides as well as on its face, as shown in Fig. 4, so that a plate 10 on an end rail C may be attached to the block 4 in the same manner that the side rail B is connected thereto, or the end rail C may be bolted to a flange 14 on the block 4, as shown in Fig. 3.

The use of this invention is particularly advantageous in the manufacture of beds formed of thin brass tubing, as it may be readily and securely attached to the tubing with but little work on the tubing; the forming of the perforations D for the reception of the studs 3 being all that is required.

It is manifest that any number of the pins 8 on the block 4 and perforations 11 in the plate 10, may be employed as the occasion may require, and while we have here shown a pair of pins on the face of the block with a corresponding number of perforations in the plate 10, that number may be increased or reduced as desired.

Having thus described our invention, what we claim and desire to secure by Letters Patent is—

1. In a bed-rail supporting device, the combination with a tubular bed-post, of a pair of coacting clamping members, one located within the post and the other being on the outside of the post, one of said members having pins projecting through the post and the other member having perforations to receive said pins, nuts on the pins for drawing the members into clamping engagement with opposite surfaces of the post, and a bed-rail having a plate fixed thereto and provided with key-hole slots and the outer of said members having pins projecting from and adapted to enter the slots of said flange to thereby support the bed-rail on the post.

2. In a bed-rail supporting device for tubular framed beds, the combination with

a tubular post, of a plate mountable in the interior of the post, threaded studs formed on said plate extending through perforations in said post, a block having perforations therein arranged to extend over the threaded ends of said studs on the exterior of the post, nuts adapted to be screwed on the outer ends of the studs to secure the block and plate together on the outer and inner walls of the post, a plate carried on the bed-rail, and means for removably engaging said plate with the block.

3. In a bed-rail supporting device for tubular framed beds, the combination with a tubular post, of a plate mountable in the interior of the post, threaded studs formed on said plate extending through perforations in said post, a block having perforations therein arranged to extend over the threaded ends of said studs on the exterior of the post, nuts adapted to be screwed on the outer ends of the studs to secure the block and plate together on the outer and inner walls of the post, a plate carried on the bed-rail, and means for removably engaging said plate with the block, including pins on the block having heads on their outer ends engageable with perforations formed in the plate.

4. In a bed-rail supporting device for tubular framed beds, the combination with a tubular post, of a plate mountable in the interior of the post, threaded studs formed on said plate extending through perforations in said post, a block having perforations therein arranged to extend over the threaded ends of said studs on the exterior of the post, nuts adapted to be screwed on the outer ends of the studs to secure the block and plate together on the outer and inner walls of the post, a plate carried on the bed-rail, and means for removably engaging said plate with the block, including pins on the block having heads on their outer ends engageable with perforations formed in the plate, and beveled flanges formed on the outer face of said plate arranged to bear against the inner faces of the heads on the pins to force the plate tight against the outer face of the block.

In testimony whereof we have hereunto set our hands in the presence of two subscribing witnesses.

JOHN CAPOZZI.
LOUIS KESER.

Witnesses:

F. S. KESER,
J. A. FAGERSTROM.