(No Model.)

T. COLLERAN.

METAL BEDSTEAD.

No. 598,594. Patented Feb. 8, 1898.

Fig. 1

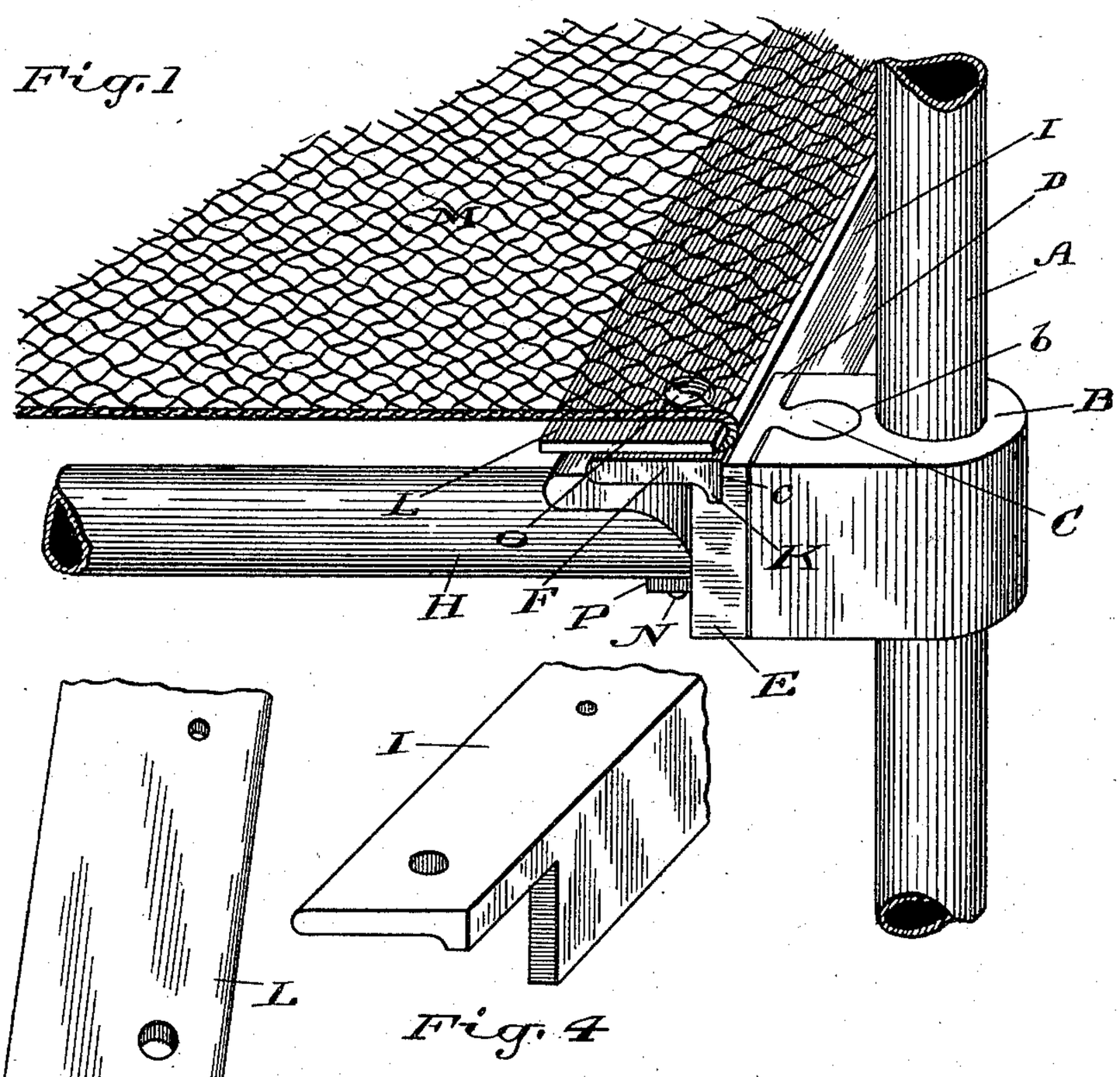

Fig. 6

Fig. 4

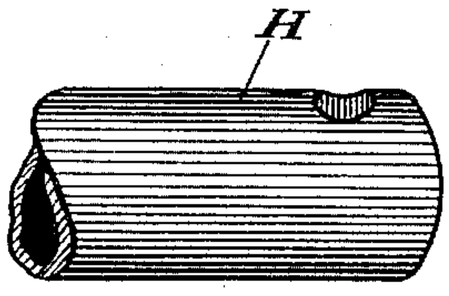

Fig. 5

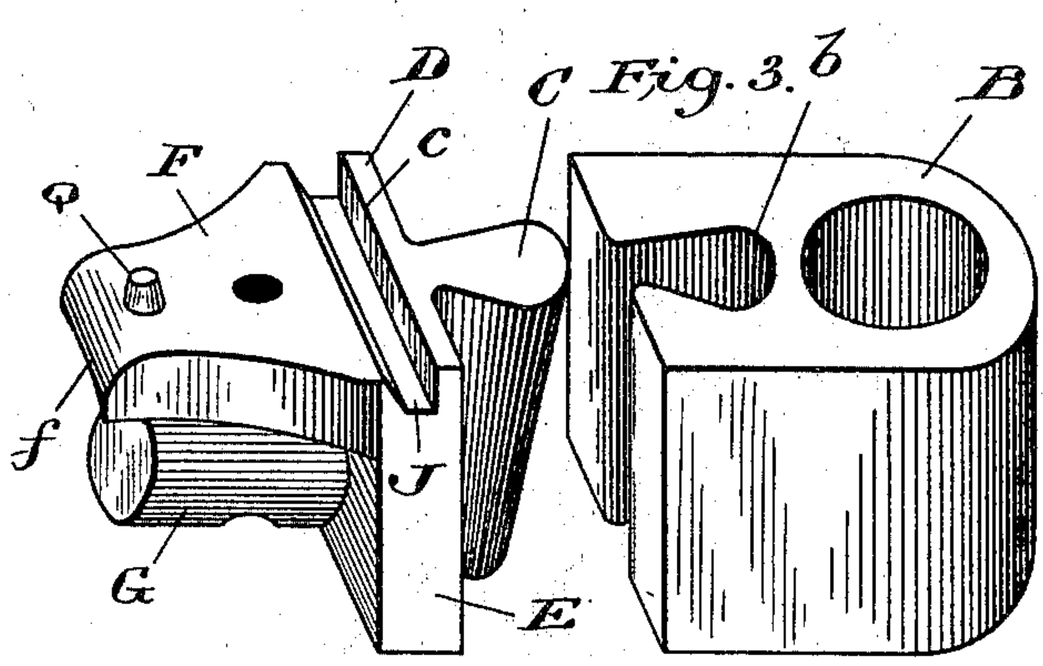

Fig. 3.

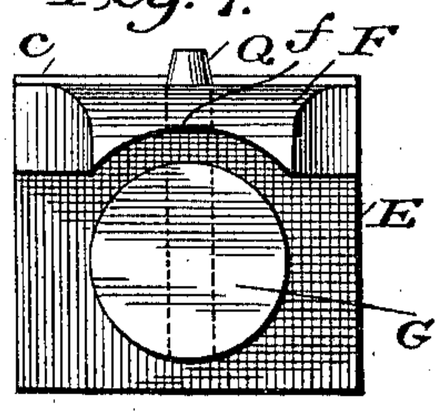

Fig. 7.

Fig. 2

Witnesses
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UNITED STATES PATENT OFFICE.

THOMAS COLLERAN, OF TORONTO, CANADA, ASSIGNOR OF ONE-HALF TO ROBERT W. BRAITHWAITE AND GEORGE W. BEDELLS, OF SAME PLACE.

METAL BEDSTEAD.

SPECIFICATION forming part of Letters Patent No. 598,594, dated February 8, 1898.

Application filed July 8, 1897. Serial No. 643,926. (No model.)

To all whom it may concern:

Be it known that I, THOMAS COLLERAN, of the city of Toronto, in the county of York, in the Province of Ontario, Canada, have invented certain new and useful Improvements in Metal Bedsteads; and I hereby declare that the following is a full, clear, and exact description of the same.

The object of this invention is to construct a coupling-bracket by means of which the side and end rails can be rigidly united and fastened to the upright posts; and the invention consists, essentially, of the device hereinafter more fully set forth, and more particularly pointed out in the claims.

In the drawings, Figure 1 is a perspective view of a portion of a bed, showing a coupling-bracket, with a section of an upright post and the end and side rails. Fig. 2 is a perspective view of the female member of the coupling-bracket. Fig. 3 is a perspective view of the male member of the coupling-bracket. Fig. 4 is a perspective view of a section of the end rail looking at it from one end. Fig. 5 is a perspective view of a section of a side rail. Fig. 6 is a perspective view of a section of the clamping-bar. Fig. 7 is an end elevation of the coupling-bracket member.

Like letters of reference refer to like parts throughout the specification and drawings.

A represents an upright post, and B represents the female member of the coupling-bracket, rigidly connected to the upright post A. The female member B consists, preferably, of a forging of any suitable shape and size. Formed in the forging is a frusto-conical slot *b*, adapted to receive a correspondingly-shaped plug C, integrally formed with the male member D of the coupling-bracket. The male member D consists of a vertical plate E and a horizontal plate F, extending from the top of one side of the plate E. Formed integrally with the opposite side of the plate E is an inverted frusto-conical plug C, which is adapted to enter the inverted frusto-conical slot *b* in the female member B of the coupling-bracket and rigidly fasten the female member to the male member D.

G represents a horizontal stud extending outwardly from the plate E and on the same side of it as the horizontal plate F. That face *f* of the horizontal plate F contiguous to the stud G is concaved, the concavity of which is concentric with the perimeter of the stud G. The stud G is remote from the concaved face *f* of the horizontal plate F a distance equal to the thickness of the tubular side rail H. Extending upwardly from the top of that side of the vertical plate E contiguous to the plug C is a flange *c*, the height of which is approximately equal to the thickness of the end rail I.

Formed in the top of the vertical plate E, between the flange *c* and the opposite edge of the plate, is a channel J to receive the depending flange K of the end rail I. The entry of the flange K into the channel J prevents the lateral displacement of the end rail. Mounted on the top of the end rail I is a clamping-bar L, the purpose of which is to bind the bed-bottom M to the end rails. Passing through the end of the clamping-bar L, end rail I, horizontal plate F, side rail H, and stud G is a bolt N, one end of which is provided with a head O and the opposite end of which is fitted with a nut P.

I do not confine myself to the use of the frusto-conical plug and similarly-shaped slot to unite the male and female members to the coupling-bracket, as I may employ any other well-known device for that purpose; but I prefer to use them, as I find them strong and easily assembled.

In assembling the parts the female member is rigidly and permanently united to the upright post A. The end of the side rail H is fitted on the stud G and is braced by its contact with the adjacent face of the horizontal plate. The end rail is mounted on the top of the horizontal plate, and its flange K is inserted in the channel J, the edge of the end rail bearing against the adjacent side of the flange *c*. The clamping-bar L is fitted on the top of the end rail I and overhangs the inner edge of the end rail, its overhanging edge being supported by a lug Q, extending upwardly from the top of the horizontal plate F. These several parts are then united by the bolt N, passing through them. The frusto-conical plugs of the male members of the coupling-brackets are then inserted into their respective slots in the female members, the bed-bottom being rigidly bound to the end

rails by means of the pressure of the clamping-bars.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A coupling-bracket member for the side and end rails of bedsteads consisting of a vertical plate, a horizontal stud extending outwardly from the middle of the plate, adapted to receive the side rail, a horizontal plate extending outwardly from the vertical plate above the stud and overhanging it, adapted to receive the end rail, substantially as specified.

2. A coupling-bracket member for the end rails of bedsteads, consisting of a vertical plate, a horizontal plate extending outwardly from the top of one side of the vertical plate, a horizontal stud extending outwardly from the same side of the vertical plate, and a channel in the top of the vertical plate, substantially as specified.

3. A coupling-bracket member for the end rails of bedsteads, consisting of a vertical plate, a horizontal plate extending outwardly from the top of one side of the vertical plate, a horizontal stud extending outwardly from the same side of the vertical plate, a channel in the top of the vertical plate, and a flange extending upwardly from the top of the opposite side of the vertical plate to the horizontal plate, substantially as specified.

4. A coupling-bracket member for the end rails of bedsteads, consisting of a vertical plate, a horizontal plate extending outwardly from the top of one side of the vertical plate, a horizontal stud extending outwardly from the same side of the vertical plate, a channel in the top of the vertical plate, a flange extending upwardly from the top of the opposite side of the vertical plate to the horizontal plate, and an upwardly-extending lug from the top of the horizontal plate, substantially as specified.

5. A coupling-bracket member for the end rails of bedsteads, consisting of a vertical plate, a horizontal plate extending outwardly from the top of one side of the vertical plate, a horizontal stud extending outwardly from the same side of the vertical plate, a channel in the top of the vertical plate, a flange extending upwardly from the top of the opposite side of the vertical plate to the horizontal plate, an upwardly-extending lug from the top of the horizontal plate, in combination with an end rail having a depending flange to enter the channel in the vertical plate, substantially as specified.

6. A coupling-bracket member for the end rails of bedsteads, consisting of a vertical plate, a horizontal plate extending outwardly from the top of one side of the vertical plate, a horizontal stud extending outwardly from the same side of the vertical plate, a channel in the top of the vertical plate, a flange extending upwardly from the top of the opposite side of the vertical plate to the horizontal plate, an upwardly-extending lug from the top of the horizontal plate, in combination with an end rail having a depending flange to enter the channel in the vertical plate, a clamping-bar mounted on the top of and overhanging the end rail, a lug supporting the overhanging part of the clamping-bar, an end rail mounted on the horizontal stud, and a locking-bolt passing through the clamping-bar, the end rail, the horizontal plate, the side rail, and the horizontal stud, substantially as specified.

7. A coupling-bracket member for the side and end rails of bedsteads consisting of a vertical plate, a horizontal stud extending outwardly from the middle of the vertical plate, a side rail fitted on the horizontal stud, a horizontal plate extending from the vertical plate above the horizontal stud and overhanging it, an end rail supported on the horizontal plate, and a locking-bolt passing through the end rail, the horizontal plate, the side rail, and the horizontal stud, substantially as specified.

8. A coupling-bracket member for the end rails of bedsteads, consisting of a vertical plate, a horizontal plate extending outwardly from the top of one side of the vertical plate, a horizontal stud extending outwardly from the same side of the vertical plate, a channel in the top of the vertical plate, a side rail mounted on the horizontal stud, an end rail mounted on the top of the horizontal plate, and a locking-bolt passing through the end rail, the horizontal plate, the side rail and the horizontal stud, substantially as specified.

9. A coupling-bracket member for the end rails of bedsteads, consisting of a vertical plate, a horizontal plate extending outwardly from the top of one side of the vertical plate, a horizontal stud extending outwardly from the same side of the vertical plate, a side rail mounted on the horizontal stud, an end rail mounted on the top of the horizontal plate, a clamping-bar, and a locking-bolt passing through the end rail, the horizontal plate, the side rail, and the horizontal stud, substantially as specified.

10. A coupling-bracket member for the end rails of bedsteads, consisting of a vertical plate, a horizontal plate extending outwardly from the top of one side of the vertical plate, a horizontal stud extending outwardly from the same side of the vertical plate, a channel in the top of the vertical plate, a side rail mounted on the horizontal stud, an end rail mounted on the top of the horizontal plate, a clamping-bar and a locking-bolt passing through the end rail, the horizontal plate, the side rail and the horizontal stud, substantially as specified.

Toronto, June 23, A. D. 1897.

THOMAS COLLERAN.

In presence of—

W. H. BATES,

C. H. RICHES.