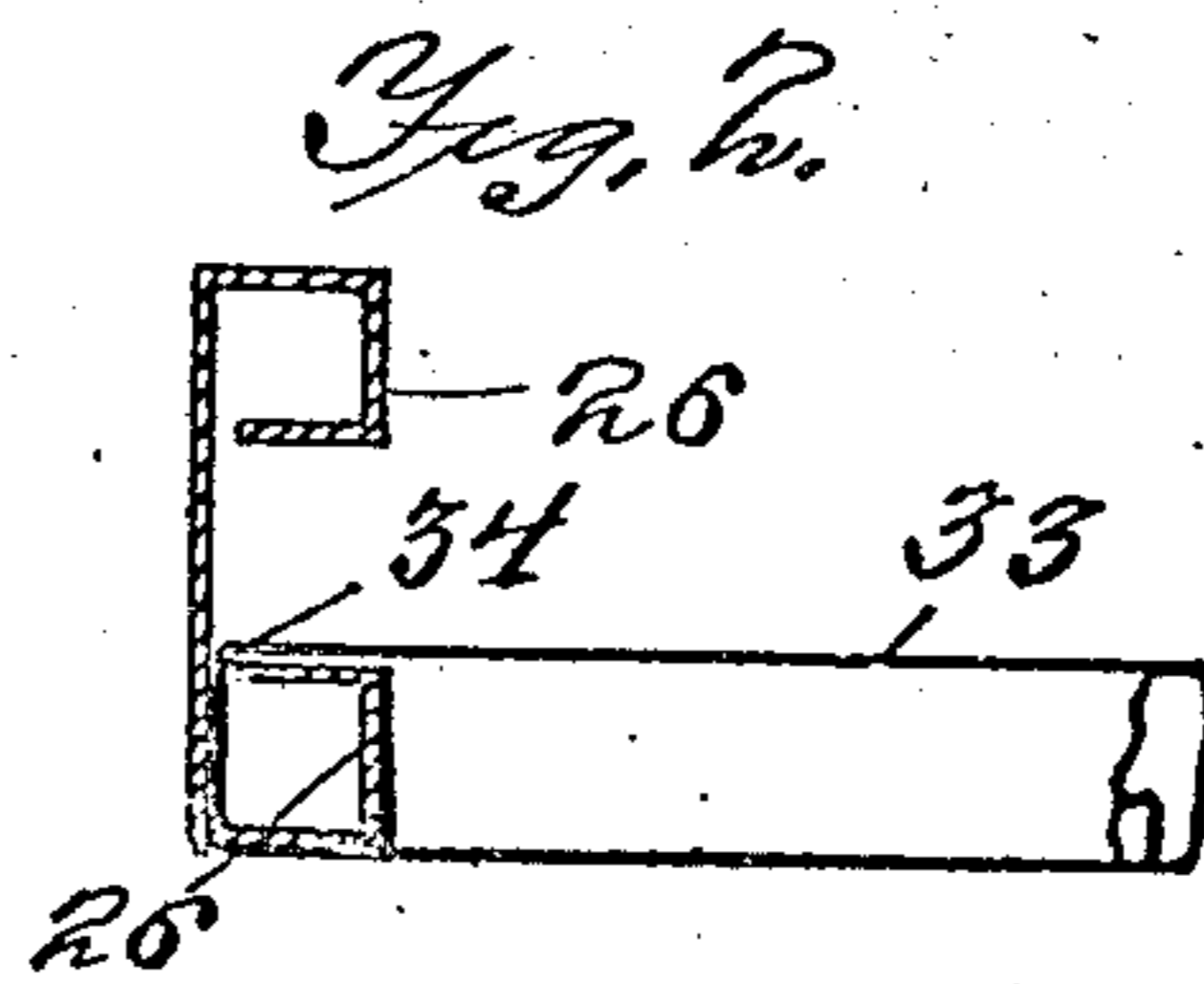
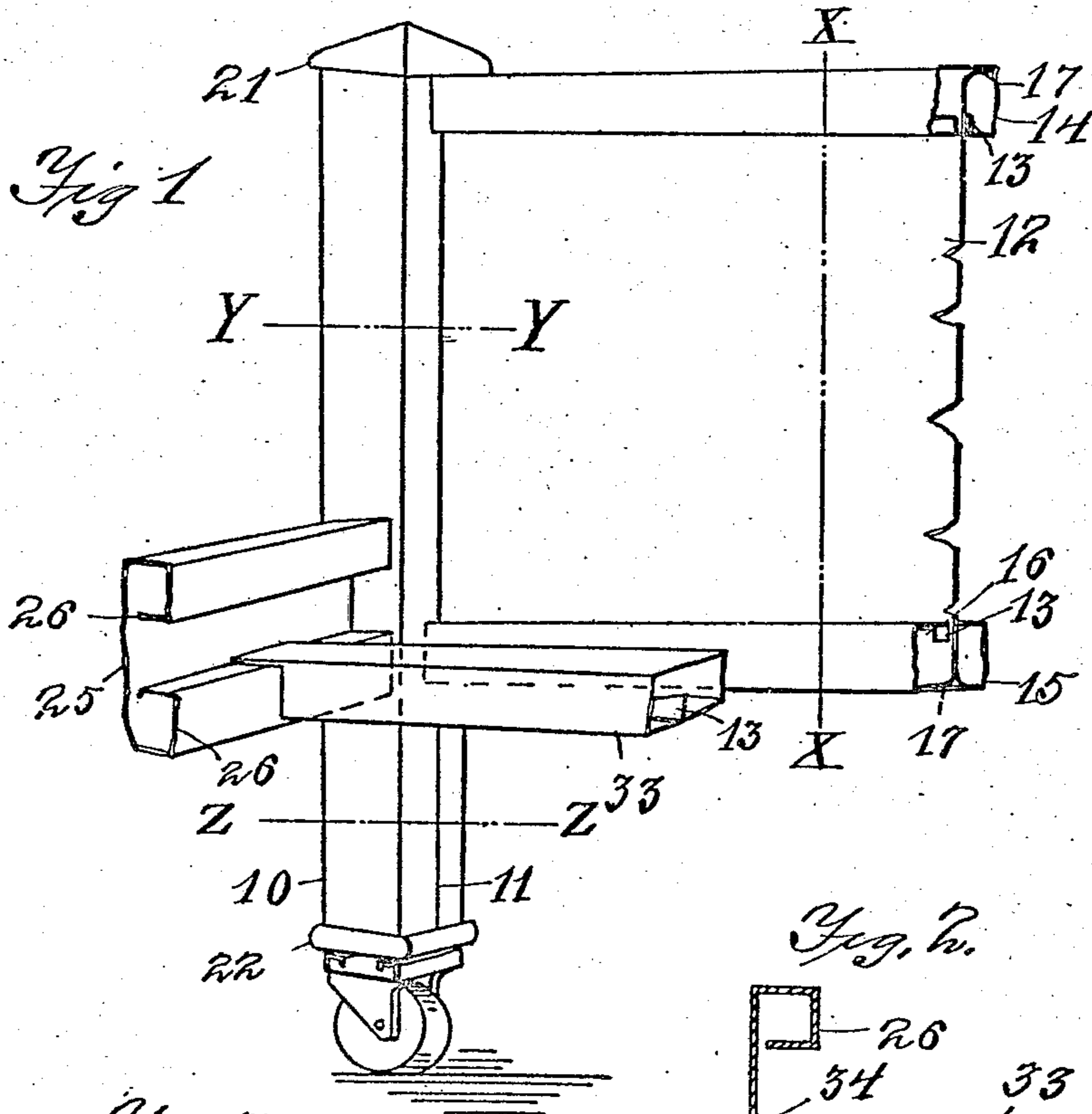


C. A. LINDEN & E. J. LUND.  
SHEET METAL BEDSTEAD.  
APPLICATION FILED DEC. 9, 1907.

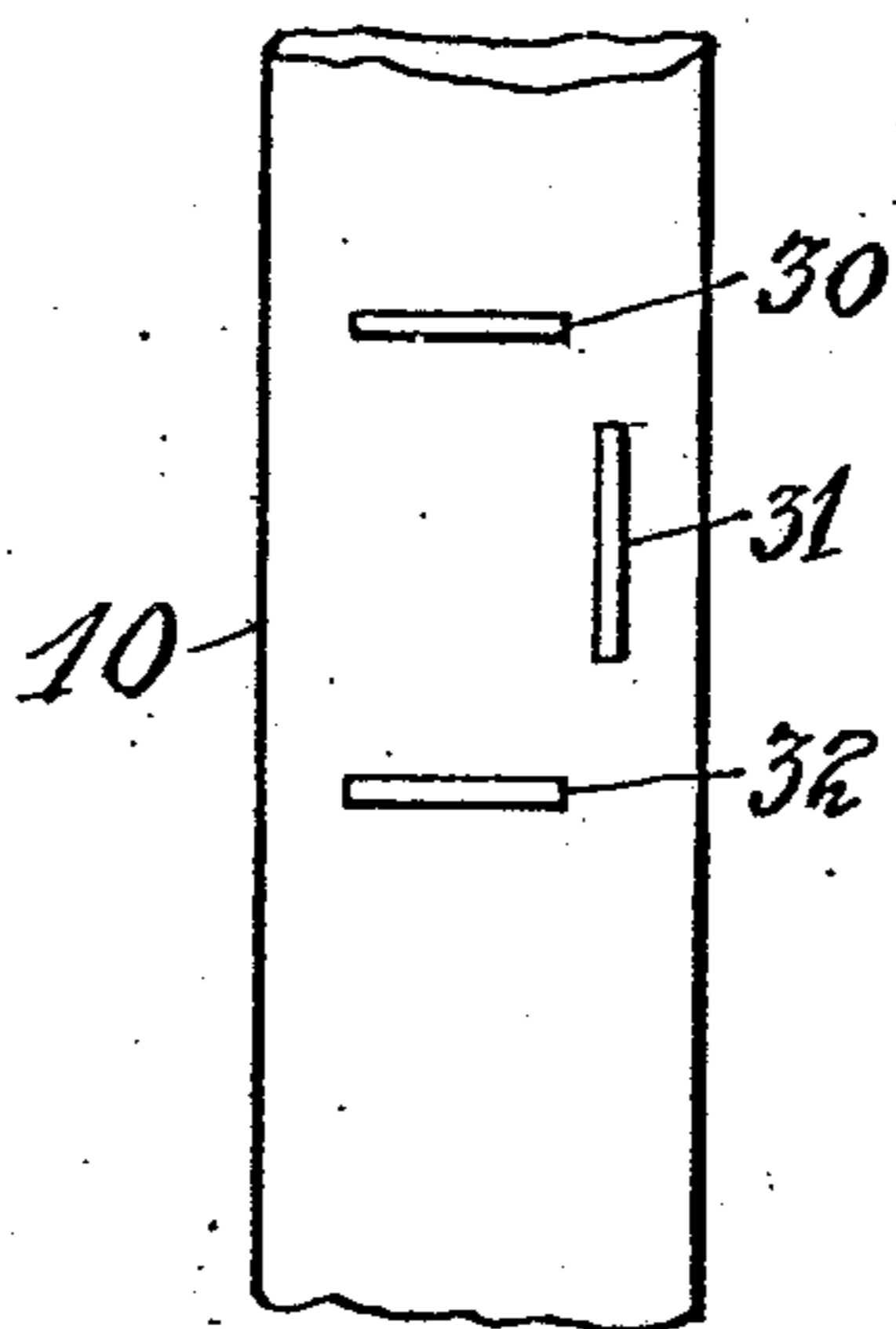
899,173.

Patented Sept. 22, 1908.

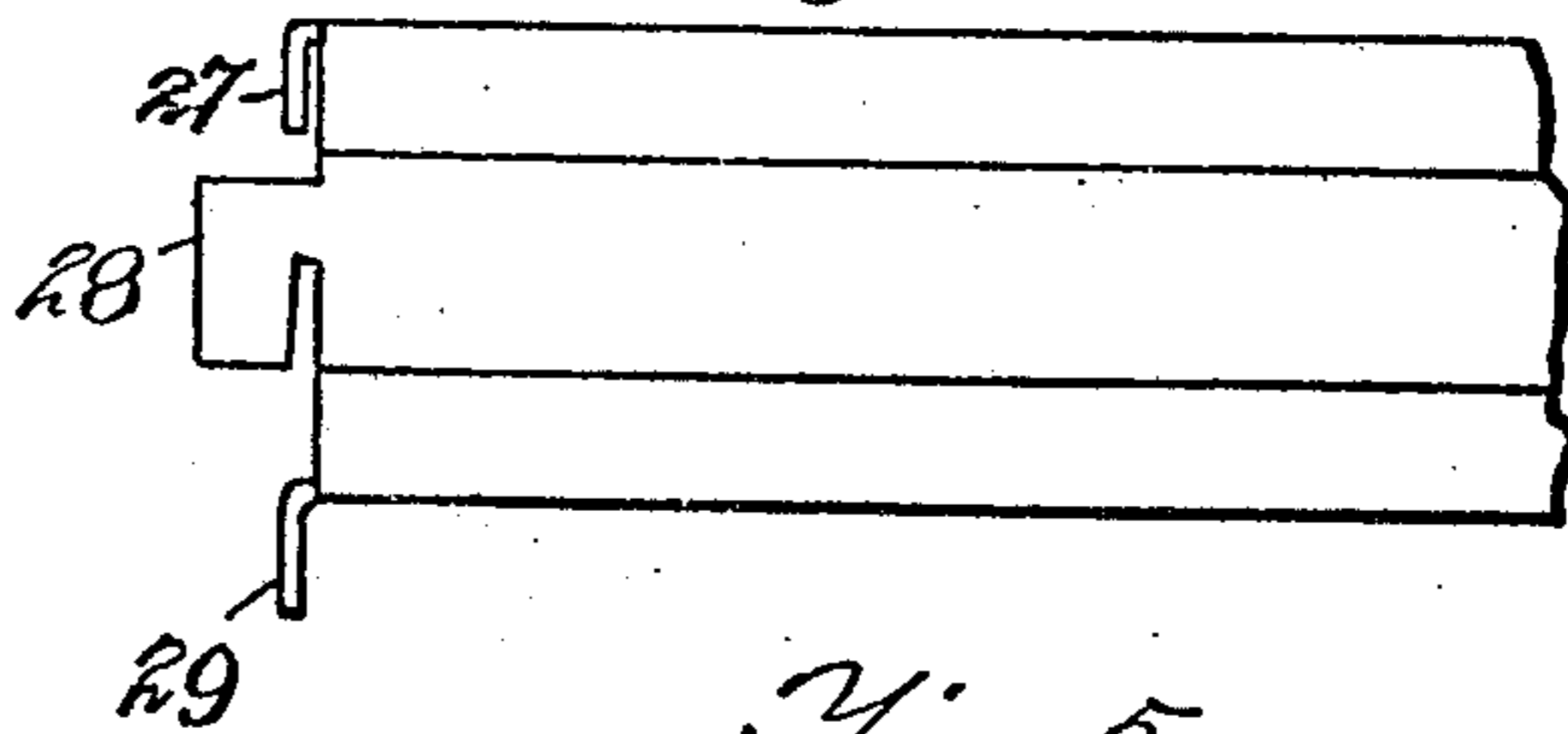
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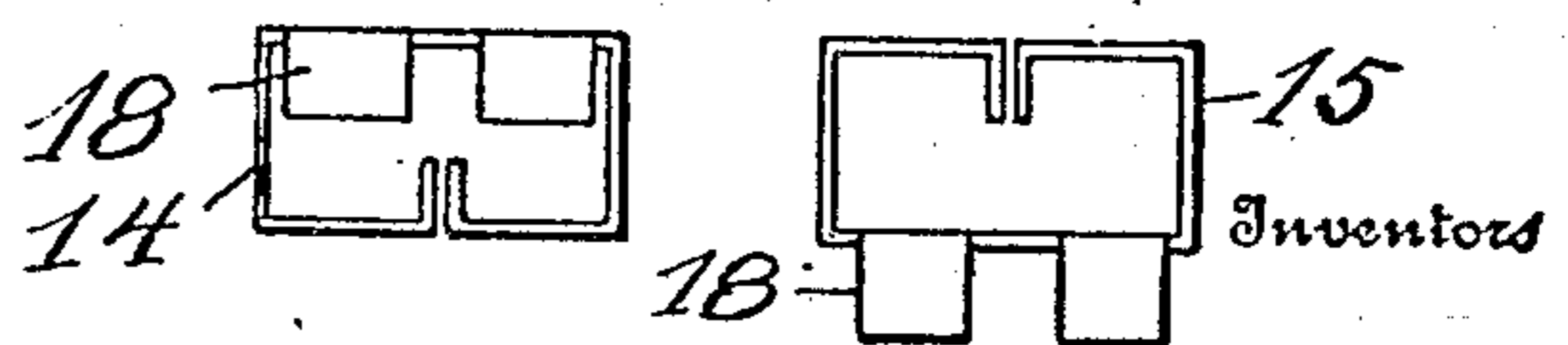
*Fig. 3.*



*Fig. 4.*



*Fig. 5.*



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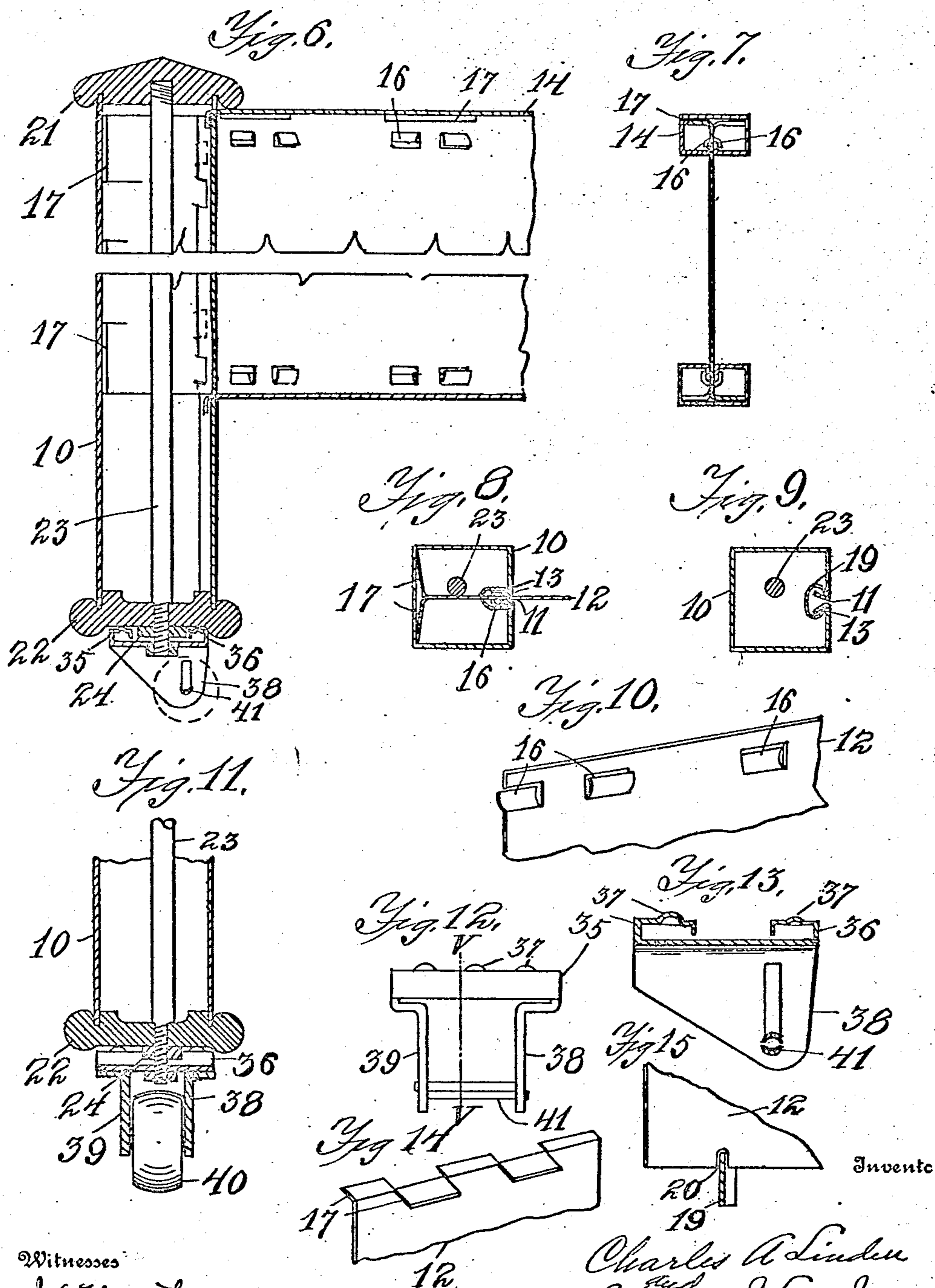
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# UNITED STATES PATENT OFFICE.

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## SHEET-METAL BEDSTEAD.

No. 899,173.

Specification of Letters Patent.

Patented Sept. 22, 1908

Application filed December 9, 1907. Serial No. 405,727.

*To all whom it may concern:*

Be it known that we, CHARLES A. LINDEN and EBBERT J. LUND, citizens of the United States, and residents of Jamestown, in the county of Chautauqua and State of New York, have invented new and useful Improvements in Sheet-Metal Bedsteads, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

The invention relates to metal furniture and particularly to bedsteads made of sheet metal and the objects of our improvements are, first, to construct a sheet metal bedstead without the use of rivets or bolts with the exception of the long tie rods in the bed posts and yet to so hold the different parts that all shall be firmly and strongly held in place; second to provide side rails and bed slats so formed as that the slats are removably hooked on the side rails, third, to provide casters having frames stamped from sheet metal and especially adaptable to our form of construction; all of which is fully shown in the accompanying drawings and described in this specification and pointed out in the claims.

In the drawings, Figure 1 is a perspective view of a corner of a bedstead, with the side rail and headboard broken away. Fig. 2 is a sectional view of the side rail showing the manner of hooking the bed slat on to said rail. Fig. 3 is a side elevation of a portion of the sheet metal bed post showing the slots therein for the attachment of the side rail; and Fig. 4 is a side elevation of the end of the side rail showing the lugs thereon for insertion in said slots. Fig. 5 shows an end view of the top and bottom rails showing the downwardly extending lugs for attachment within the sheet-metal bed post. Fig. 6 is a vertical sectional view of one of the bed posts and a portion of the headboard. Fig. 7 is a crosswise view of the headboard at line X X in Fig. 1. Fig. 8 is a crosswise sectional view of one of the bed posts at line Y Y in Fig. 1. Fig. 9 is a sectional view at line Z Z in Fig. 1. Fig. 10 is a perspective view of a portion of the edge of the headboard showing the lugs, or, as called in the shop, "blisters" struck from the sheet metal for attaching the headboard to the posts and to the upper and un-

der rails as hereinafter set forth. Fig. 11 is a sectional view of the lower end of the bed post with caster thereon. Fig. 12 is a detail of the caster frame. Fig. 13 is a sectional view of the frame at line V V in Fig. 12. Fig. 14 is a perspective view of an edge of the headboard showing the lugs cut thereon and turned in opposite directions to brace said headboard within the rails and posts. Fig. 15 is a detail of a corner of the headboard showing the notch therein.

Similar numerals refer to corresponding parts in the several views.

The numeral 10 indicates the sheet metal bed post. It is preferably formed in rectangular tubular shape of sheet metal, the seam of the adjacent edges being placed toward the headboard or footboard 12 and having inturned flanged lips 13.

Headboard 12 is provided with an upper rail 14 and an under rail 15 preferably made in the rectangular tubular form and having inturned lips 13 the same as post 10. The seam in each of rails 14 and 15 is turned toward the headboard 12 so that said board, which is also made of sheet metal and inserted through said seam and locked thereon in the following manner: Lugs, or, as called in the shop, pairs of "blisters" 16 are struck from the plate 12 in opposite directions and in such position as to engage the inturned lips 13 so that said lips lock under the blisters 16 as they are turned to the opposite sides of the plate 12. The edge of the headboard 12 within rails 14 and 15 is preferably extended to the side opposite the seam and lugs 17 cut thereon and turned in opposite directions, as shown in Fig. 14. This braces the headboard firmly within the rails and does not allow them to turn or wobble in the slightest degree since the lugs 17 brace firmly against the inner corners of the rails. Top and bottom rails 14 and 15 have also the end lugs 18 which, as shown in Fig. 5 and 6 turned down for the top rail 14, and rail 15, facing in the opposite direction to rail 14, also has lugs 18 turned downward. Said lugs 18 engage slots in the side of post 10, as shown in Fig. 6, and assist in holding the rails firmly in place.

Corner post 10 is formed as above stated in a sheet metal tubular form preferably rectangular, and the end of headboard 12 is ex-

tended through seam 11, lugs or blisters 16 being provided on board 12 in line with intumed lips 13 so as to engage the same and lock the intumed sides of the tubular post 5 firmly in place. The end of plate 12 is cut in a number of places and the lugs 17 are turned in opposite directions, as shown in Figs. 6, 8 and 14, so that the end of the plate 12 braces within corner post 10 in the manner above 10 described in regard to the edge of plate 12 within rails 14 and 15.

The seam 11 of post 10 beneath rail 15 is held together as shown in Fig. 9. The lips 13 are spread apart at their inner edges and a 15 slotted triangular tube 19 is slipped over them thereby holding the sides firmly together and providing a tubular construction upon which sheet 12 rests. The edge of the sheet has a notch 20 which prevents its slid- 20 ing back and forth on said tube 19. Post 10 is further held in place by means of a cap 21 and a base 22 which cap and base have extensions within the tubular post 10 and the groove around said extensions into which the 25 ends of post 10 extend are so formed as to draw the tube firmly into place and hold it there. A rod 23 is secured in cap 21 and extends through base 22, having a slight shoulder thereon, and is secured by a nut 24 be- 30 neath base 22, which construction draws all the parts of the post and headboard firmly together, holding them firmly in place.

The side rail 25 is formed with tubular edges 26, preferably rectangular in form, and 35 is provided at its end with the three lugs 27, 28 and 29. Post 10 is provided with corresponding slots, 30 for lug 27, 31 for lug 28, and 32 for lug 29, so that when said lugs are inserted within said slots they draw the end 40 of the side rails firmly against the post and lock it in position.

The bed slat 33 is preferably made in the rectangular tubular form in order to be light and strong and is attached to the side rail 25 45 over the tubular intumed edge 26 by means of an extension of the end in the form of a hook 34 which extends down over tubular intumed flange 26, as shown in Fig. 2, bracing the end of the tubular slat against edge 50 26 and thereby holding the bed slat 33 firmly in place.

A special form of caster is provided for our bedstead, the frame of which is made from a single sheet of metal in the following man- 55 ner: The front and rear end is turned upward and inward in flanges 35 and 36 which has rounded projections or beads 37 struck therein in order to form points of bearing against the under side of metal base 22. Down- 60 wardly projecting lugs 38 and 39 are provided at each end of flanges 35 and 36 which are turned inwardly and downward so as to provide just sufficient space therebetween for the roll 40. The pin 41 for roll 40 is pref-

erably struck from the sheet metal sides 38 65 and 39 as follows: The upper half of said pin is struck from sheet 38 and the under half from sheet 39. The die which cuts these parts from the sheet metal is so formed as to turn them in semi-circular form as shown in 70 section, Fig. 13, and as they are turned at right angles in opposite directions one forms the under and one the upper side of the pin. The outer ends are riveted back on to the outer surface of lugs 38 and 39 thereby hold- 75 ing them firmly in place.

Our bedstead is assembled in the following manner: The headboards 12 are provided with the pairs of blisters 16 bent in opposite 80 directions along their edges at the proper distances for rails 14 and 15 and posts 10. Rails 14 and 15 are first slipped to their proper position on said headboard. The posts 10 are turned to the tubular form by means of suitable dies and the lower portion 85 of seam 11 is united by means of tube 19. Headboard 12 with rails 14 and 15 thereon is then slipped into the upper portion of seam 11 thereby locking said seam fast by means of blisters 16 and intumed flanged lips 13. 90 Lugs 17 brace the edges of said headboard both in the posts and rails. Lugs 18 on the ends of rails 14 and 15 are inserted in suitable slots in posts 10 and notch 20 engages the upper end of tube 19. Cap 21 with tie- 95 rod 23 secured therein is then put in place, the tie-rod being inserted through posts 10 and engaging base 22, nut 24 drawing all the parts firmly together and rendering them rigid in position. The caster is then screwed 100 upon the lower end of rod 23 and secured by a suitable nut. Side rail 25 may then be inserted in the slots in posts 10 as above described and slat 33 hooked over said side rail, thereby assembling the entire bed. 105

It is apparent that an enamel or metal finish may be applied to the sheet metal covering all the seams and joints and giving the bed a smooth appearance. Also that our construction is strong and durable without 110 great weight considering the material of which the bed is constructed.

We claim as new:—

1. In a sheet metal bedstead, a corner post composed of a sheet of metal bent in tubular 115 form and having adjacent intumed flanged edges, a head or footboard inserted between said flanged edges, and means on said headboard for engaging said flanged edges to hold the same. 120

2. In a sheet metal bedstead, a post composed of a sheet of metal in tubular form having intumed flanged edges, a sheet metal head or footboard inserted between said flanged edges, and lugs on said head or foot- 125 board engaging said flanged edges to hold the same.

3. In a sheet metal bedstead, a post com-

posed of a sheet of metal in tubular form having inturned flanged edges, a sheet metal head or footboard inserted between said flanged edges, and lugs struck up from said head or footboard to engage said inturned edges and hold the same.

4. In a sheet metal bedstead, a post composed of a sheet of metal in tubular form having inturned flanged edges lengthwise thereof, the lower portion of said flanged edges attached to one another, a sheet metal head or footboard inserted between the upper portion of said flanged edges and locked on said attached portion, and lugs on said head or footboard engaging said flanged edges to hold the same.

5. In a sheet metal bedstead, a corner post composed of a sheet of metal in tubular form having inturned flanged edges, a sheet metal head or footboard inserted between said flanged edges, and pairs of lugs struck from said headboard or foot in opposite directions to hold said inturned flanged edges.

6. In a sheet metal bedstead, a corner post composed of a sheet of metal in tubular form having inturned flanged edges, a sheet metal head or footboard inserted between said flanged edges, lugs on said head or footboard engaging said inturned flanged edges, the end of said head or footboard cut and extended in opposite directions to the inner corners of said post to brace the same.

7. In a sheet metal bedstead, a corner post composed of sheet metal in tubular form and having a seam at one side, a head or footboard inserted through said seam having a part thereof turned to one inner corner of the post and another part turned to the opposite corner, and means for holding said head or footboard within said post.

8. In a sheet metal bedstead, a post composed of a sheet of metal in tubular form having adjacent edges, a head or footboard inserted between said adjacent edges and attached thereto, a cap and base for said tubular post, and a tie-rod connecting said cap and base to hold said parts in place.

9. In a sheet metal bedstead, a corner post, a sheet metal head or footboard having suitable means of attachment to said post, a rail on said head or footboard composed of a sheet of metal in tubular form having inturned flanged edges, said head or footboard inserted between said flanged edges and engaging said flanges to hold the same.

10. In a sheet metal bedstead, a corner post, a sheet metal head or footboard having suitable means of attachment to said post, a rail on said head or footboard composed of a sheet of metal in tubular form having inturned flanged edges, and lugs on said head or footboard engaging said inturned flanged edges to hold the same.

11. In a sheet metal bedstead, a corner post, a sheet metal head or footboard having suitable means of attachment to said post, a rail on said head or footboard composed of a sheet of metal in tubular form having inturned flanged edges, lugs on said head or footboard engaging said inturned flanged edges to hold the same, and the edge of said head or footboard extended to the opposite inner corners of said rail to brace the same.

12. In a sheet metal bedstead, a corner post, a sheet metal head or footboard having suitable means of attachment to said post, top and bottom rails on said head or footboard having inturned flanged edges, lugs struck from said head or footboard in opposite directions to engage said flanged edges, and lugs on the ends of said rails to engage said post.

13. In a sheet metal bedstead, a corner post composed of a sheet of metal in tubular form having inturned edges, a sheet metal head or footboard inserted between said inturned edges, lugs on said board engaging said edges to hold the same, top and bottom rails on said board composed of sheets of metal having inturned flanged edges, lugs on said board engaging said flanged edges to hold the same, and lugs on the ends of said rail engaging said posts, and a cap and base for said post and a tie-rod to connect the same, substantially as and for the purpose specified.

14. In a sheet metal bedstead, a corner post composed of a sheet of metal in tubular form having a vertical slot and spaced crosswise slots therein, a side rail having a vertical downwardly extending lug to engage said vertical slot and crosswise downwardly extending lugs to engage said crosswise slots.

15. In a sheet metal bedstead, a sheet metal corner post having a vertical slot and spaced crosswise slots above and below said vertical slots, and downwardly extending lugs on the end of said side rail to engage said slots, substantially as and for the purpose specified.

16. In a sheet metal bedstead, a side rail having inturned tubular edges, a bed slat composed of a sheet of metal in tubular form, the end of said bed slat extended in an angular lug to hook over and rest upon said tubular inturned edge of said side rail.

17. In a sheet metal bedstead, a corner post composed of a sheet of metal in tubular form having inturned edges, a portion of said inturned edges united by a slotted tube, a sheet metal head or footboard inserted between the upper portion of said flanged edges and having locking notch for the upper end of tube, lugs on said board engaging said inturned edges to hold the same, tubular top and bottom rails

and 15 having inturned edges and lugs 16 on said board to hold the same, posts 10 having suitable slots and lugs 18 on said top and bottom rails engaging said slots, cap 21 and base 22 for said corner post, and tie-rod 23 connecting said cap and base, substantially as and for the purpose specified.

In testimony whereof we have signed our

names to this specification in the presence of two subscribing witnesses.

CHARLES A. LINDEN.  
EBBERT J. LUND.

Witnesses:

CHARLES G. FREDRICKSON,  
S. ARTHUR BALDWIN.