

No. 648,496.

Patented May 1, 1900.

L. H. JENSEN.
FOLDING BED.

(No Model.)

(Application filed Apr. 17, 1899.)

2 Sheets—Sheet 1.

Fig. 1.

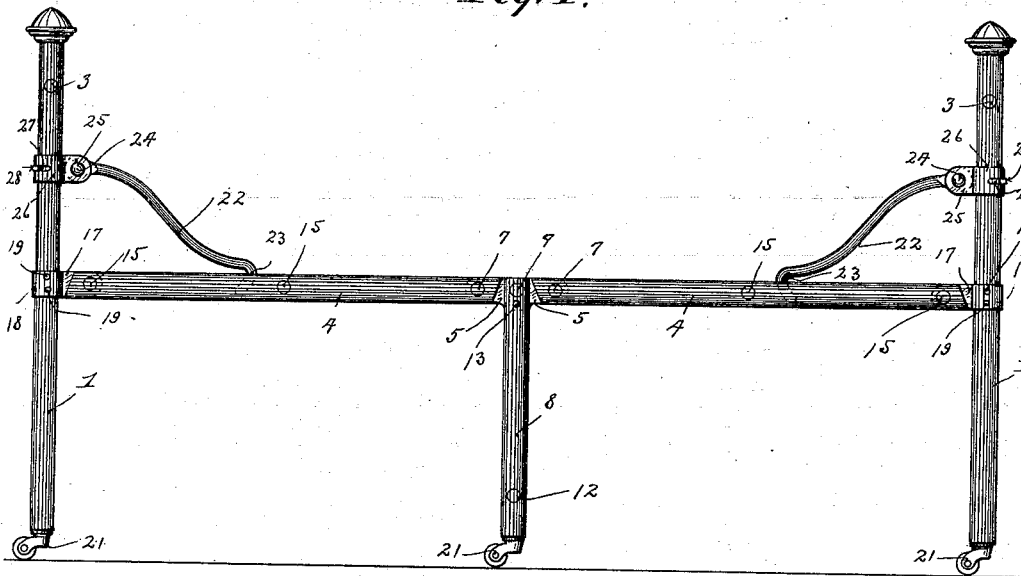
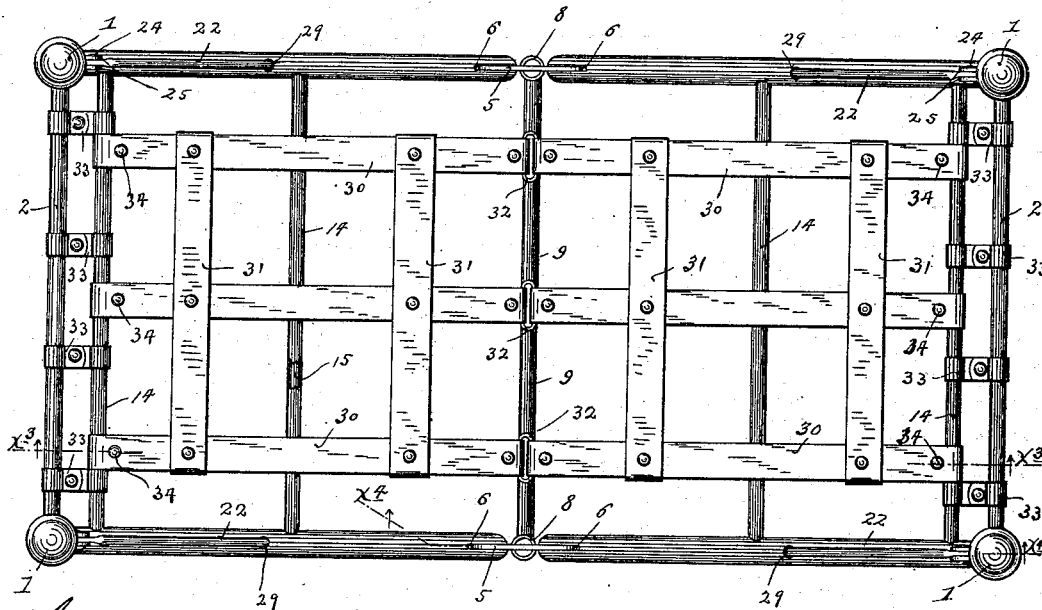


Fig. 2.



Witnesses.

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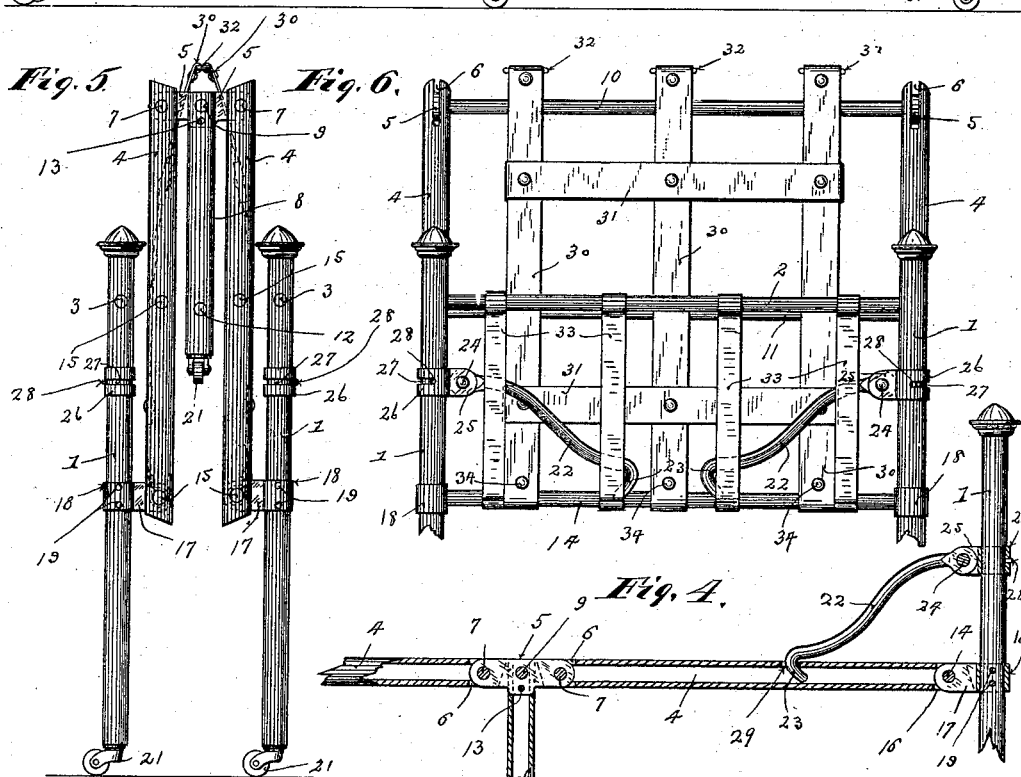
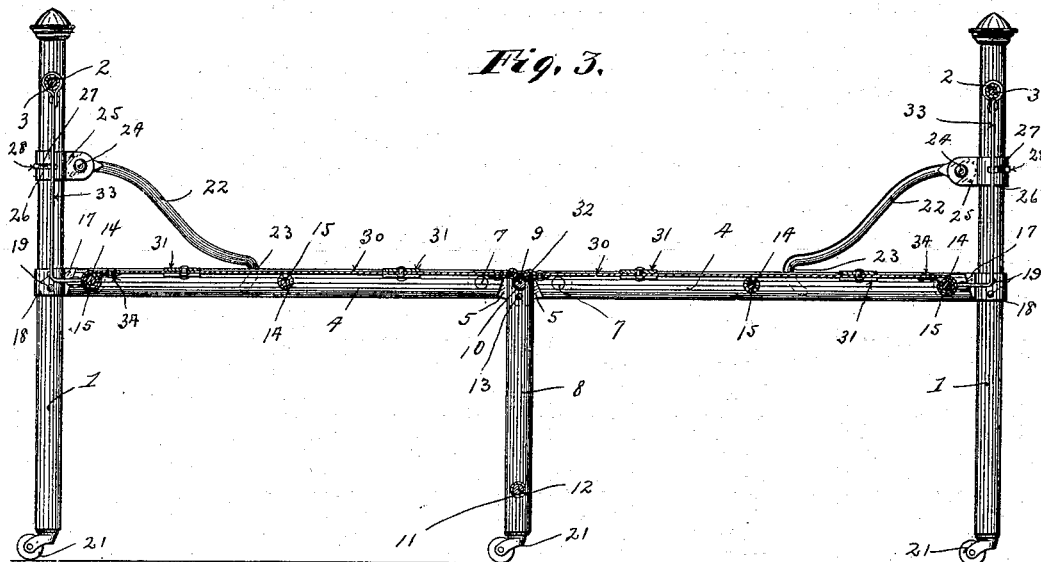
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By his Attorney.

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UNITED STATES PATENT OFFICE.

LAURITZ H. JENSEN, OF MINNEAPOLIS, MINNESOTA.

FOLDING BED.

SPECIFICATION forming part of Letters Patent No. 648,496, dated May 1, 1900.

Application filed April 17, 1899. Serial No. 713,252. (No model.)

To all whom it may concern:

Be it known that I, LAURITZ H. JENSEN, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Folding Beds; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to folding beds or cots, and has for its especial object to provide an improvement thereon in the nature of a cheap, simple, and efficient bedstead or cot-frame adapted to be folded within small compass.

To the above ends and others which will hereinafter appear my invention consists of the novel devices and combinations of devices hereinafter described, and defined in the claims.

The invention in its preferred form is illustrated in the accompanying drawings, wherein like characters indicate like parts throughout the several views.

Figure 1 is a side elevation, and Fig. 2 is a plan, of my improved bedstead or frame shown as set up and ready for use. Fig. 3 is a vertical longitudinal section taken on the line $x^3 x^3$ of Fig. 2. Fig. 4 is an enlarged view, partly in side elevation and partly in vertical section, on the line $x^4 x^4$ of Fig. 3. Fig. 5 is a side elevation showing the bedstead or frame folded; and Fig. 6 is an end elevation of the parts of the bedstead folded as shown in Fig. 5, some parts being broken away.

The end posts (indicated by the numeral 1) are connected in pairs by transverse ties, which, as shown, are formed by small spacing-tubes 2 and long tie-bolts 3, passed through the said tubes 2 and end posts 1 and riveted at their ends. The end posts 1 are also intended to be tubular, being preferably constructed from pipe-sections cut to the proper length.

The side rails 4 are formed each by two tubular sections, the adjacent ends of which are spaced slightly apart and are pivotally connected to a hinge plate or strip 5. These hinge plates or strips 5 are set edgewise in vertical planes and they are mounted to work in vertical slits 6, cut centrally of the ends

of the tube-sections 4, the hinge-joints therewith being made on short rivets or pivot-bolts 7. Rigidly secured to each of the hinge-strips 5, between the ends of the adjacent side-rail sections 4, is a depending center leg 8. At their upper portions and in transverse line with the hinge-strips 5 the center legs 8 are tied together and properly spaced by a small spacing-tube 9 and a long bolt or rod 10, passed therethrough and through the said hinge-plates 5 and legs 8 and riveted at its outer ends. Likewise, as shown, the lower ends of the legs 8 are spaced apart and tied together by a spacing-tube 11 and a tie-bolt 12. Additional rivets 13, passed through the hinge-strips 5 and adjacent portions of the said legs 8, cooperate in the construction illustrated with the tie-bolt 10 to rigidly secure the upper ends of the said legs 8 to their corresponding hinge plates or strips. It will be noted that the upper ends of the said legs 8 are provided with central slits which adapt them to straddle the said hinge-plates 5, so that they will stand in the same plane or in line with the tubular rail-sections 4.

The side-rail sections 4, which stand opposite to each other, are tied together and spaced apart by spacing-tubes 14 and tie bolts or rods 15, which bolts are passed through said tubes and the said side rails and are riveted at their outer ends. The tubular side-rail sections 4 are also provided at their outer ends with vertical slits cut centrally thereof, as indicated at 16, and they are pivotally connected to the inwardly-projecting flanges 17 of clamping-collars 18 by means of the outer members of the bolts 15, which in this instance are passed therethrough. The so-called "clamping-collars" 18 are shown as rigidly secured to the end posts 1 by means of rivets 19. (Best shown in Fig. 4.) The legs 1 and 8 are shown as provided with ordinary casters 21.

To lock or securely hold the framework of the bedstead in its opened or operative position, as indicated in Figs. 1, 2, and 3, I provide folding braces or brackets, which are preferably in the form of hook-rods 22, provided with hooked free ends 23 and pivoted at their other ends by rivets or bolts 24 between the ears 25 of supporting-collars 26, which collars 26 are loosely mounted on the

upper sections of the end posts 1. The said collars 26 are provided with segmental slots 27, in which pins or fixed projections 28 on the said end post 1 work to hold the said collars against sliding movements on the posts, while permitting them to be oscillated through as much as ninety degrees of movement, so as to carry the hooked rods or brackets 22 from their operative positions (indicated in Figs. 1, 2, and 3) into their inoperative or folded positions. (Indicated in Fig. 6.) When secured, as shown in Figs. 1, 2, and 3, the hooked ends of the rods or brackets 22 are passed into perforations or seats 29, formed in the upper surfaces of the cooperating or corresponding side-rail sections 4.

A flexible slatwork, made up of longitudinally-extended straps 30 and transverse connecting-straps 31, is extended from end to end of the bed-frame over the tops of the spacing-tubes 9 and 14. The outer ends of the straps 30 are shown as wrapped around the outer members of the spacing-tubes 14 to pivotally connect them thereto. Furthermore, the said straps 30 are sectioned at their central portions or just above the spacing-tube 9, and these sectioned ends are connected to form hinge-like joints by means of metal loops 32.

At each end of the bed several vertical strips 33 extend from the spacing-tubes 2 to the outer members of the spacing-tubes 14. The lower ends of the said strips 33 are shown as extended horizontally for a short distance, as best illustrated in Fig. 3, and these lower ends are pivotally secured around the said engaged spacing-tube 14, so as to permit the free folding of the parts of the bedstead.

To fold the bed above described, it is only necessary to raise the free ends 23 of the rods or brackets 22 out of engagement with their seats 29 in the side rails or tubes 4 and turn the said rods inward against the ends of the bedstead. Then the central portion of the frame or bedstead may be raised and the ends thereof folded up, as illustrated in Fig. 5, in which form the bedstead will occupy very little space and may be very readily carried under the arm or otherwise.

It will be understood, of course, that the center legs 8 are prevented from tilting or folding when the bedstead is set up for use, as shown in Figs. 1, 2, and 3, inasmuch as they are rigidly secured to the central hinge plates or strips 5. It is also important to

note that the parts forming the hinge-joints between the frame-sections are located within the planes embracing the sides of the tubes, or, in other words, do not project outward from the side of the tube. This makes the bedstead very neat in appearance and does not leave projections upon which the clothes or other articles are liable to be caught.

The above-described bedstead, while capable of a more general use, is especially intended to meet the requirements for a cheap and efficient folding bed or cot, and the said bedstead is particularly adapted for use where it is necessary to frequently set up and take down the bed.

The so-called "slatwork" 30 31 serves as a substitute for a spring, and the mattress may be directly supported thereby. The outer ends of the longitudinally-extended strips 30 are shown as secured to the outer members of the spacing-tubes 14 by rivets 34, which secure the looped ends of the said strips to the body portion.

It will of course be understood that my invention above specifically described is capable of many modifications as to its details of construction.

What I claim, and desire to secure by Letters Patent of the United States, is as follows:

1. The combination with the end legs or posts 1 provided with the bearing-collars 17, 18, of the intermediate legs 8 provided with the rigidly-secured hinge plates or strips 5, and the side rails 4 provided at their ends with the slits 6 and 16, embracing respectively said hinge-strips 5 and the flanges or ears 17 of the said bearing-collars 18, substantially as described.

2. The combination with the end posts 1 provided with the flanged collars 17, 18, of the intermediate legs 8 having the rigidly-secured hinge plates or strips 5 passed centrally therethrough, and the sectioned tubular side rails 4 provided at their ends with the slits 6 and 16, embracing respectively and pivoted to said hinge-strips 5 and flanges 17 of said collars 18, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

LAURITZ H. JENSEN.

Witnesses:

M. M. MCGROBY,
F. D. MERCHANT.