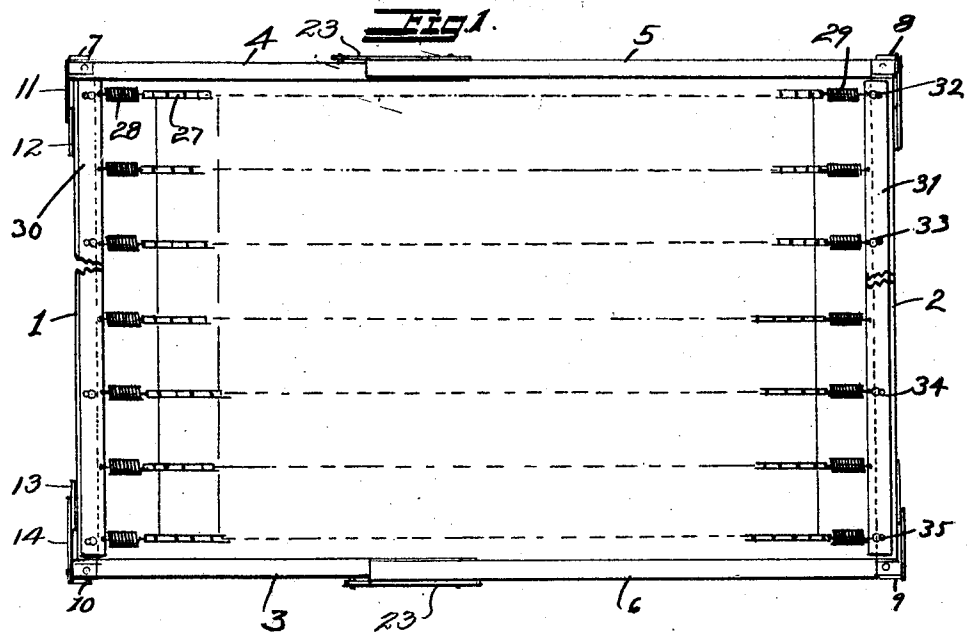
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Fig. 1.



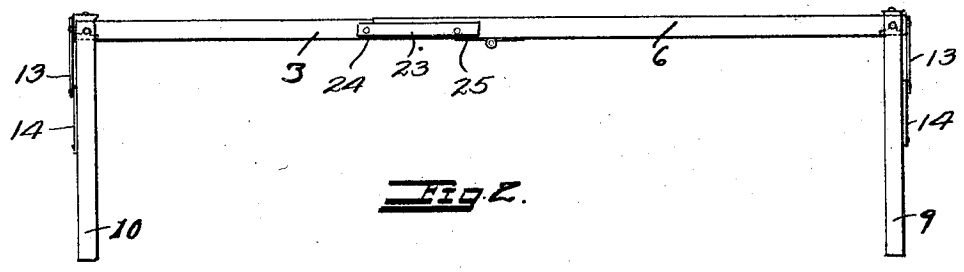


Fig. 2.

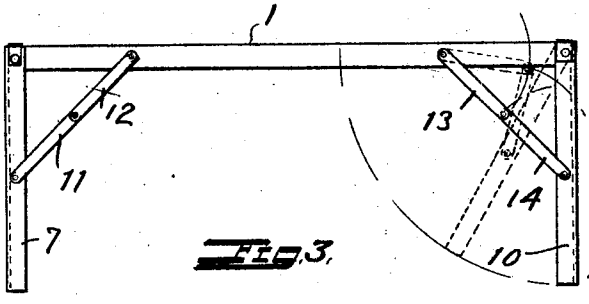


Fig. 3.

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Fig. 4

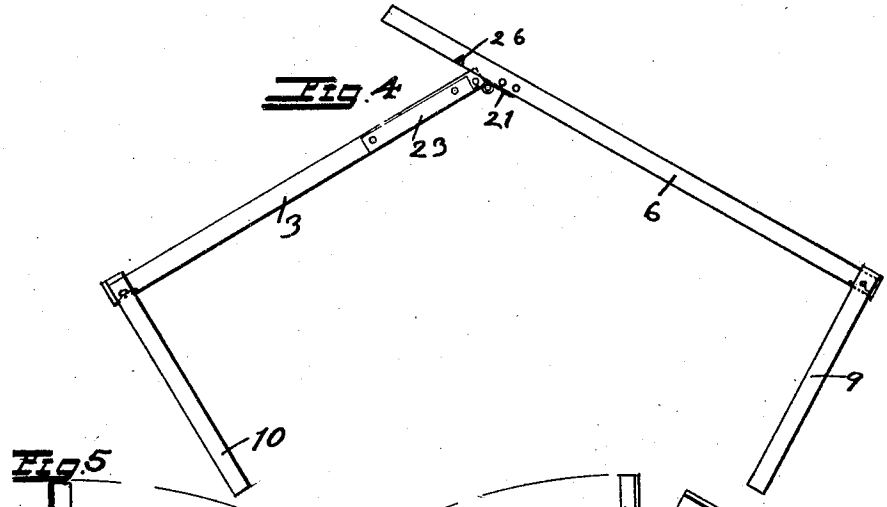


Fig. 5

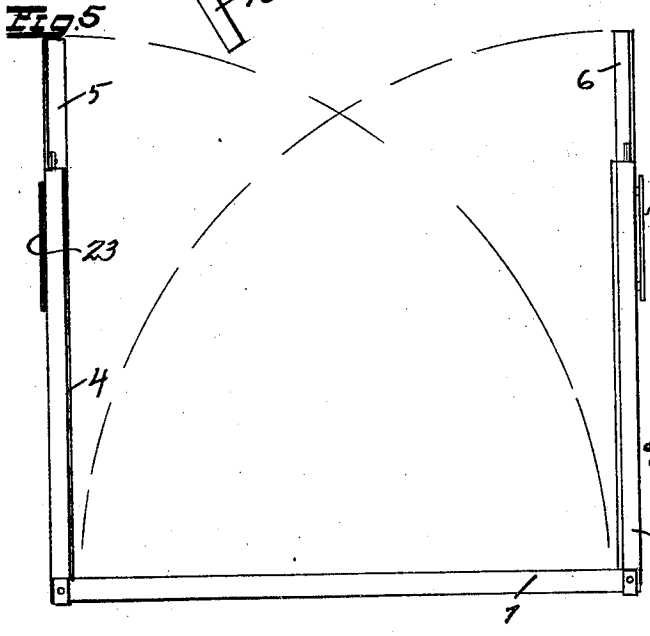


Fig. 8

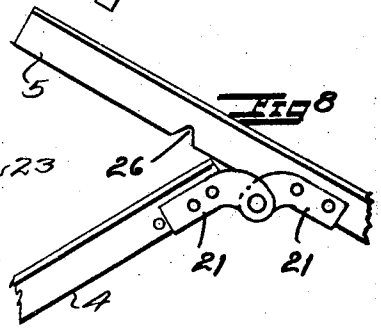


Fig. 9

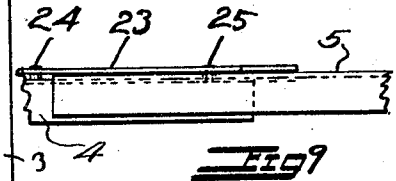


Fig. 6

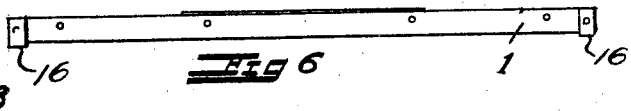
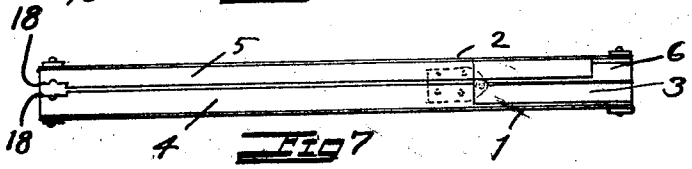


Fig. 7



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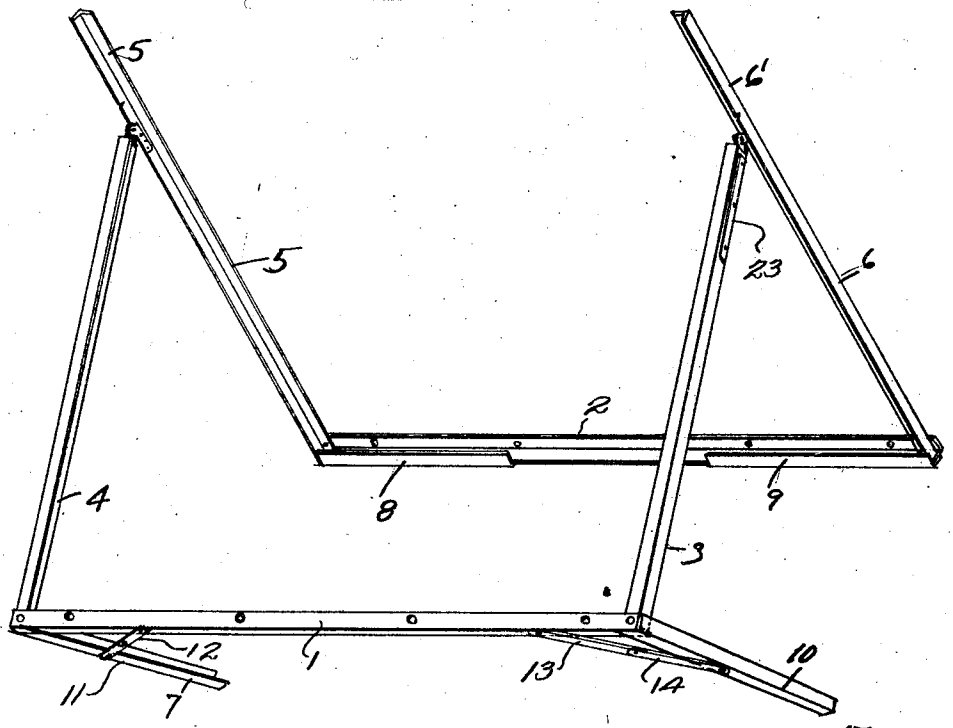
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Fig. 10.



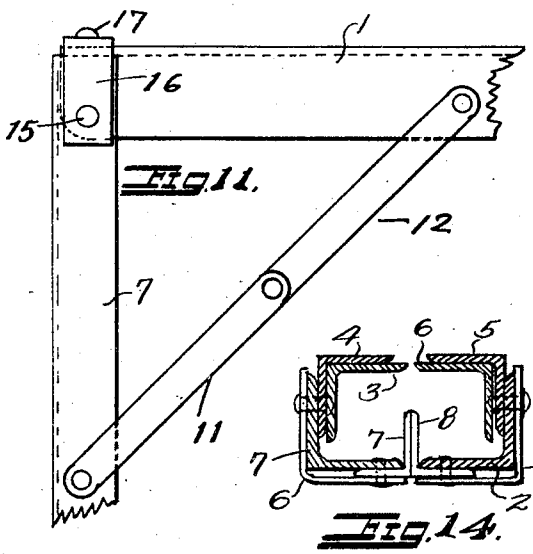


Fig. 11.

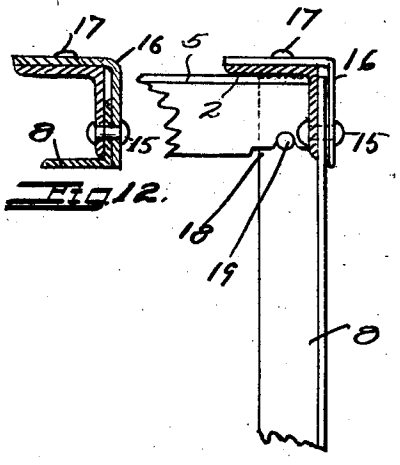


Fig. 12.

Fig. 14.

Fig. 13.

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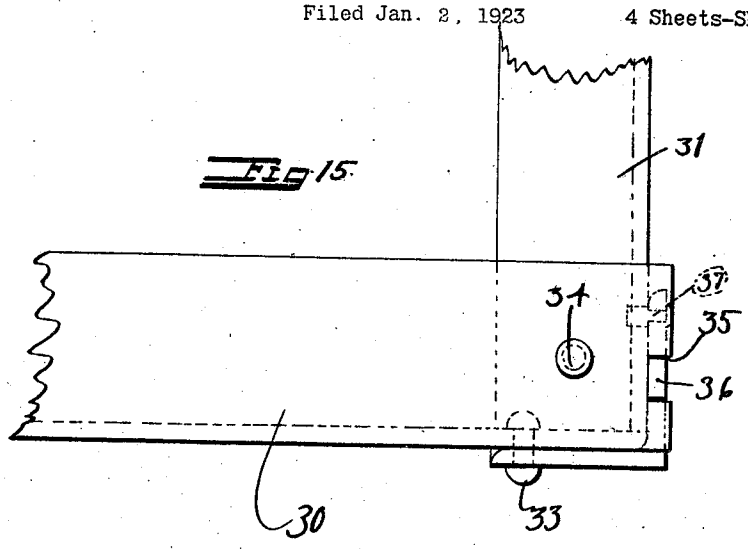
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Fig 15.



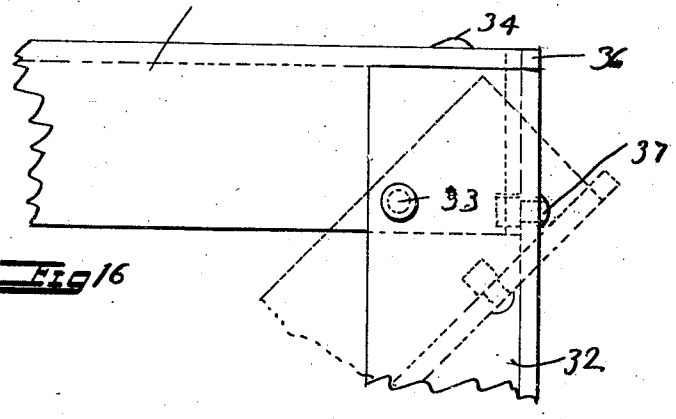
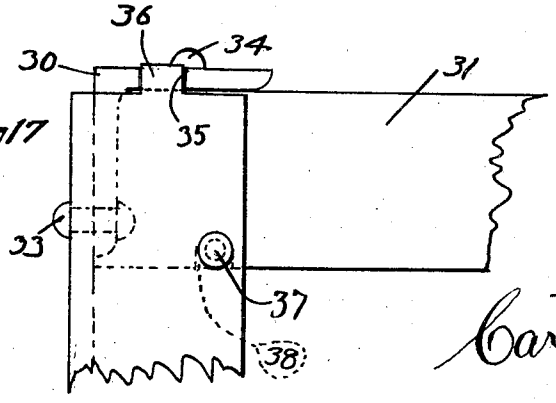


Fig 16

Fig 17



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Patented Nov. 23, 1926. 1,608,291

UNITED STATES PATENT OFFICE.

HAROLD R. BASFORD, OF SAN FRANCISCO, CALIFORNIA.

FOLDING CAMP BED.

Application filed January 2, 1923. Serial No. 610,284.

This invention relates to a folding camp bed, and its object is to produce a frame for a camp bed which is capable of folding into as small a compass as possible in order to make a convenient package for carrying in an automobile by camping parties.

It will be understood by those skilled in the art that beds of this character are most usually made of angle iron in order to give the necessary stiffness to the frame. Unless care is used in arranging the relation of the pivots of the several parts of the frame to each other and to the frame itself, the frame becomes exceedingly bulky when folded, but with the present invention the pivots are all arranged so that the parts of the bed nest into each other in the smallest possible compass thereby making the bed more convenient to handle and ship.

Another object of the invention is to arrange a bed fabric separate from the bed frame so the fabric can be wrapped up around the bed, if desired, or made into a separate package, if that is more convenient.

Another object of the invention is to produce a bed which can be set up in such a manner as to stretch the bed fabric without turning the bed frame over, and which frame will not fold up if a person happens to sit upon the center of the side rail when the bed is set up.

Other objects of the invention will appear as the description proceeds.

An embodiment of the invention is shown in the accompanying drawings in which the same reference numeral is applied to the same portion throughout, but I am aware that there may be modifications thereof.

Fig. 1 is a plan view of the bed completely set up,

Fig. 2 is a side elevation of the bed frame set up, but with the fabric removed therefrom,

Fig. 3 is an end view of the bed frame set up,

Fig. 4 is a side elevation of the bed frame in process of being set up,

Fig. 5 is a view of the bed frame as it appears partially folded up, the dotted circles indicating the direction of movement for folding of the two side members,

Fig. 6 is a view of the bed frame completely folded up looking from the side,

Fig. 7 is a view of the bed frame completely folded up looking at right angles to Fig. 6,

Fig. 8 is a larger view of the joint at the center of one of the side rails,

Fig. 9 is a plan view of the joint at the center of one of the side rails,

Fig. 10 is a perspective view of the bed frame without the bed fabric secured thereto in the process of being set up, two of the legs being extended and two of them in the folded position,

Fig. 11 is a side elevation on a slightly larger scale than Fig. 3, of one of the bed corners,

Fig. 12 is a sectional view of the bed frame adjacent one of the corners of the bed,

Fig. 13 is a view of one of the bed frame corners looking from the inside of the frame, and

Fig. 14 is a sectional view of the bed frame as it appears when completely folded up, illustrating the nesting of the several members of the bed frame,

Fig. 15 is a plan view of a modified form of corner lock used to connect the end rails, side rails and legs together,

Fig. 16 is a side elevation of the lock shown in Fig. 15, and

Fig. 17 is a view of the lock shown in Fig. 15 in side elevation, looking from the right of Fig. 15.

The bed frame comprises two end members 1 and 2 and four side members 3 to 6 inclusive.

The end members have legs 7 to 10 inclusive pivotally mounted thereon, the pivots being arranged parallel to the length of the bed so that the legs fold toward each other and parallel to the respective end members.

Locking links 11 to 14 connect each leg to the end members and hold the end members extended when necessary.

The pivots 15 of each leg also pass through a short angle member 16, which angle member is also secured to the end member at each of the four corners of the bed by means of a rivet 17. The object of the angle member 16 is to give each leg sufficient bracing effect to make it unnecessary to provide braces to connect the legs with the side members, thereby reducing the weight of the complete bed.

Each of the outer ends of the bed sides is notched as indicated at 18, to give clearance enough to permit the leg to fold with respect to said side member, and said notch also contains a recess to receive the rivet 19, whereby the necessary longitudinal stiffness

is given to the corner produced by the leg with its adjacent end member and side member. The side members are pivotally mounted on the horizontal web of the end members by means of the same rivets 17, which pass through the angle 16 and said members nest with the angle upon which they are pivotally mounted.

The ends 5′ and 6′ of the members 5 and 6 overlap the ends of the members 3 and 4, and they are connected together on each side by means of the hinge 21.

In order to stiffen the side members at the center a plate 23 is secured on each of the side members 3 and 4 by means of two rivets 24, 25. This plate permits the vertical web of each of the angles 5 and 6 to pass between it and its corresponding side members 3 and 4 and the notch 26 serves to allow the two members to fold down far enough to pass the dead center enough to lock the two members when in an extended position under the strain of the bed fabric.

The bed fabric comprises a plurality of chains or other extensible members 27, provided with short helical springs 28, 29 at opposite ends thereof. These springs are connected by means of suitable hooks, to two flat plates 30, 31, said plates having four openings therein, each to receive the pins 32 to 35 projecting above each end member.

The heads to the pins 32 to 35 are slightly larger than the bodies thereof so that once the bed is set up there is no danger of the plate coming off the projecting pins.

The form of corner lock for the side rails, end rails and legs shown in Figures 1 to 14 inclusive may be modified as shown in Figures 15 to 17 inclusive. In these figures 30 indicates the bed frame end rail, 31 one end of one of the side rails, and 32 one of the legs. The leg is pivotally connected to the end rail by means of the rivet 33 and the end rail is connected to the side rail by means of the pivot 34.

The end rail has a notch 35 in the end of its horizontal leg to receive a lug 36 on the upper end of the leg 32. The leg 32 is also provided with a lug 37 adapted to pass into a notch 38 in the lower edge of the side rail. The object of the formation of the two lugs just mentioned is to produce a solid corner when the bed frame members are extended. It will be understood that this type of corner takes the place of the type of corner shown in Fig. 11 and does not require the use of the plate 16, however the braces 11 and 12 are made use of just the same.

It will be understood by those skilled in the art that in setting the rivets in the legs and several side frames of the bed that the rivets are always set far enough from the ends of the frames to allow enough clearance to permit the legs and side frames to rotate into a position at the side of the frame to which that particular part is secured.

What I claim is as follows, but various modifications may be made in the construction shown in the drawings and above particularly described form, within the purview of my invention.

1. A foldable bed frame comprising angle bars pivotally connected together to form the ends and sides of a rectangular bed frame, legs pivotally connected to the end angle bars, braces pivotally connecting each leg with the end angle bars to hold the legs in extended position, and inter-engaging means on said legs and the side angle bars adapted to automatically connect said legs to the latter when the former are swung to extended position.

2. A foldable bed frame comprising angle bars pivotally connected together to form the ends and sides of a rectangular bed frame, angle members secured to one flange of said angle bars to overlie the other flange adjacent the corners of the bed frame, legs mounted between and pivotally connected to said angle bars and angle members, and foldable braces pivotally connecting each leg with said angle bars.

In testimony whereof I have hereunto set my hand this 28th day of December A. D. 1922.

HAROLD R. BASFORD.