

No. 858,475.

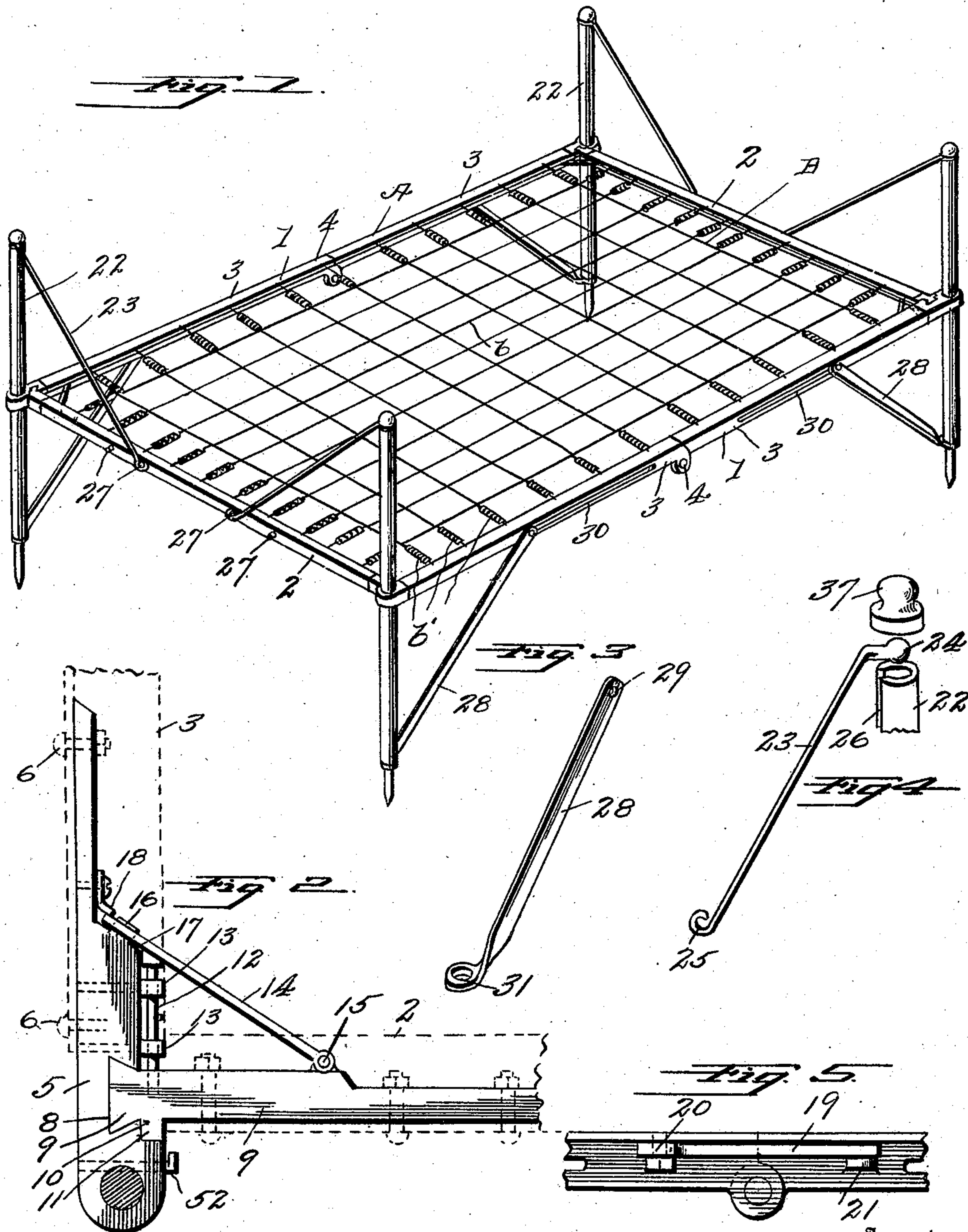
PATENTED JULY 2, 1907.

M. J. SCANLAN.

BED.

APPLICATION FILED JULY 31, 1906.

2 SHEETS—SHEET 1.



Witnesses

Chas. H. Davies

John P. Davis

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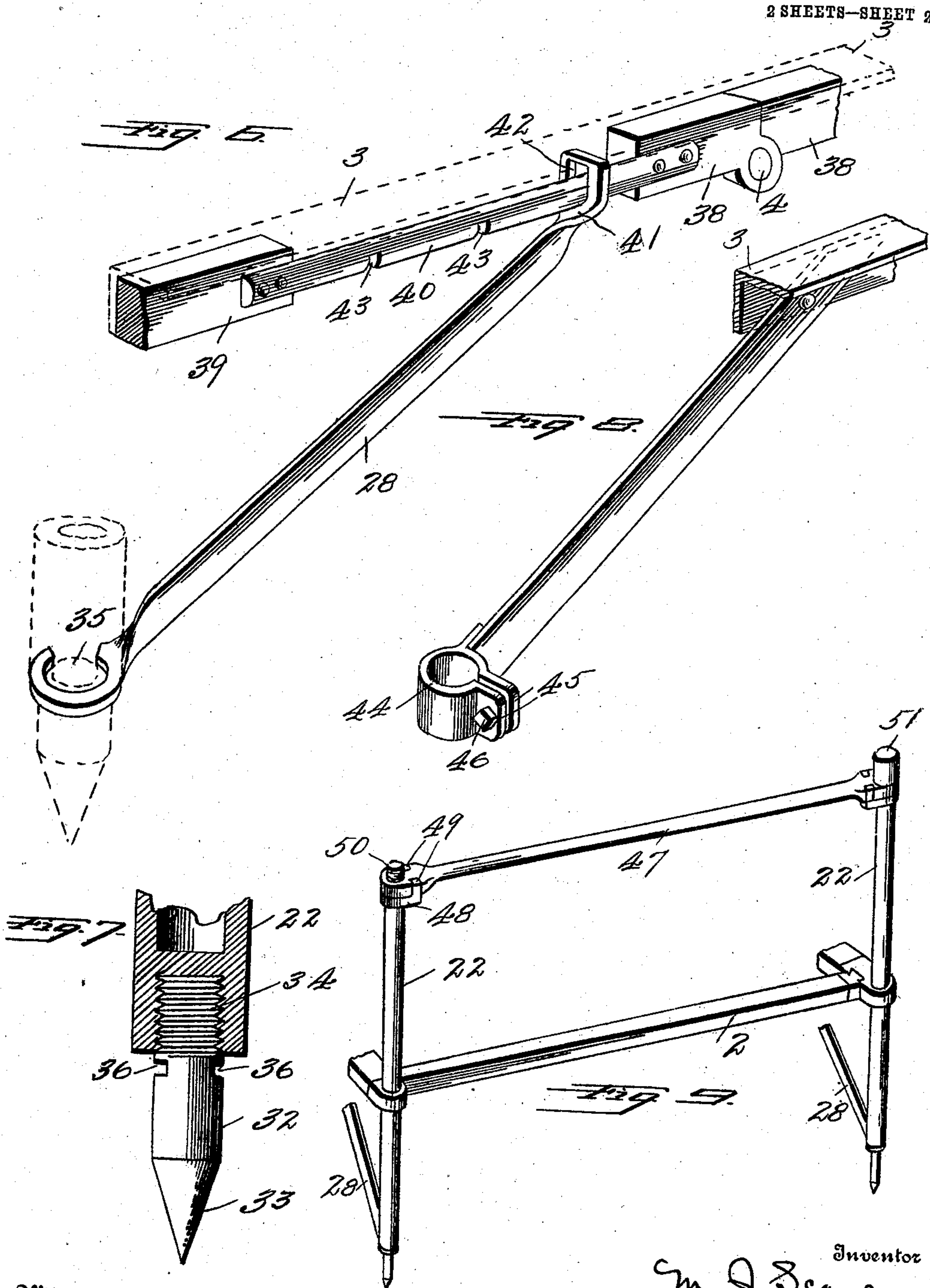
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UNITED STATES PATENT OFFICE.

MARCELLUS J. SCANLAN, OF KEYSTONE, SOUTH DAKOTA.

BED.

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Specification of Letters Patent.

Patented July 2, 1907.

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To all whom it may concern:

Be it known that I, MARCELLUS J. SCANLAN, a citizen of the United States, residing at Keystone, in the county of Pennington and State of South Dakota, have
5 invented certain new and useful Improvements in Beds, of which the following is a specification.

This invention relates to new and useful improvements in beds and more particularly to a bed embodying a frame constituted of foldable and adjustable sections.
10 tions.

The invention aims primarily to provide a bed designed for out door use such as camps and the like, and to this end the construction embodies novel means for adjustably positioning the frame with relation to its
15 supports, whereby inequalities and irregularities in the ground may be compensated for and the bed frame supported in a perfectly level plane.

The invention aims as a further object to provide a bed which may be readily carried from place to place
20 and with this end in view embodies a knock down structure which may be readily packed into a small size roll designed to be slung or carried upon the shoulder of the bearer.

It is finally an object of the invention to provide a
25 bed of the above described type which shall be simple and inexpensive to manufacture, light, strong and durable, and practical and efficient in use.

The detailed construction will appear in the course of the following description in which reference is had
30 to the accompanying drawings forming a part of this specification, like numerals designating like parts throughout the several views, wherein,

Figure 1 is a perspective view embodying a bed constructed in accordance with my invention. Fig. 2 is a
35 plan view illustrating the mode of connecting the side and end bars of the frame. Figs. 3 and 4 are detailed perspective views illustrating the preferred embodiment of adjustable frame suspending elements carried by the supporting corner posts. Fig. 5 is a fragmentary
40 side elevation of a portion of one of the side bars, which are counterparts in construction, illustrating the manner of maintaining said side bars in their extended position. Fig. 6 is a detailed perspective view illustrating a modified form of suspending elements to be herein-
45 after specifically referred to. Fig. 7 is a plan view partly in section of a removable shoe secured to the corner posts at the lower ends thereof. Fig. 8 is a further modification of suspending elements to be hereinafter referred to, and Fig. 9 is a detailed perspective
50 view of a modified construction embodying end cross braces secured between two corner posts and arranged preferably in parallelism to the end bar of the frame.

As above intimated the invention is primarily intended as a camp bed, but the arrangement and assembly of the several elements is such that the bed is

readily adaptable for in-door use wherein a level floor or supporting surface is provided.

In the practical embodiment of the invention I employ a frame A comprising side bars 1 and end bars 2. For the sake of lightness and strength, the bars 1 and 2
60 are of angle iron construction. The bars 1 each comprise sections 3 which have positive connection at a central point by means of a hinge butt joint 4, whereby said sections may be folded upon one another. As shown in the underneath plan view in Fig. 2, the end bars 2 and
65 the sections 3 are provided at their adjacent ends with elements designed to interlockingly engage one another whereby the members of the frame are positively united as a composite structure. The sections 3 are each provided adjacent their free ends with an extension 5 secured to said sections by suitable fastening means as
70 bolts 6. In like manner an extension 7 is secured to the end bar 2 and is designed to complement the extension 5 in effecting an interlocked engagement of the parts. To this end the extension 5 is formed with a vertical
75 dove-tail groove 8 within which is received the conformable extremity 9 of the extension 7. Adjacent its extremity 9 the extension 7 is provided with a laterally extending strengthening or reinforcing lug 10 which interfits a recess 11 provided therefor in the side
80 of the extension 9. When the sections have been articulated by the engagement of the extensions 5 and 7 in the manner above described, they are prevented from vertical displacement by a sliding bolt 12 carried upon the extension 5 and engaging in a suitable recess in the
85 extension 7. The bolt 12 is of ordinary construction and is movable in keepers 13 which serve as guides. The side and end bars are further reinforced by means of a brace 14 hinged as at 15 to the extension 7 and provided with an apertured free end designed to fit over a
90 projecting stud 16 carried upon the angular rear surface 17 of the extension 5. Adjacent to said stud a pivoted latch 18 is provided, which is designed to engage the end of the brace 14 and maintain said brace in operative position against accidental displacement.
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In Fig. 5 I have illustrated a means for maintaining the sections 3 in their extended position, which means comprises a horizontal element 19 pivoted at 20 to one of said sections and engaging with its free end a stop 21 provided upon the other of said sections.
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In connection with the frame A constructed as above described, a spring B for supporting a mattress is employed. The spring B is of any conventional form capable of being easily folded or rolled and in Fig. 1 an advantageous embodiment thereof is illustrated, which
105 comprises a fabric *b* and detachably secured coil suspension springs *b'* which are connected to the bars 1 and 2. While the bed is being set up by engaging sections 5 and 7, sections 3 are left in a half closed angle position on hinges 4, and when finally pressed into a horizontal
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position, tension is put in coil suspension springs connected to end bars 2.

The above description relates to the construction and mode of assemblage of the frame proper in connection with which novel supporting means are employed embodying as primary elements corner posts 22, which pass through vertical openings in the extremities of the extensions 5. The frame A is suspended from the corner posts 22 by upper suspension elements having connection with the end bars 2, and by lower suspension elements having connection with the side bars 1.

In the preferred embodiment of the invention as illustrated in Fig. 4, the upper suspension elements each comprise an elongated inclined bar 23, the upper end of which is of spherical contour as at 24, and the lower end of which is bent to form a hook 25. The spherical end 24 is received in a relatively short length vertical recess 26 formed in the upper end of the posts 22. The lower end with its hook 25 is adapted for engagement with a selected one of a plurality of studs 27 carried upon the bar 2 in spaced relation. It will be readily seen that the height of the frame A with relation to the supporting posts 22 may be regulated by engaging the hooked end 25 of the member 23 with a particular stud as desired. The lower suspension elements above referred to comprise inclined members 28 formed with apertured upper ends 29 through which a pin projects which serves to loosely engage the member 28 with a longitudinal slot 30 provided in the adjacent section 3. The lower end of the member 28 is flattened and off-set as at 31 and is provided with an opening which surrounds a foot piece 32 illustrated in Fig. 7. The foot piece 32 comprises a pointed end 33 adapted to take into the ground and a threaded end 34 by which said foot piece is secured in a recess formed in the lower end of each of the posts 22.

In Figs. 6 and 7 an advantageous construction is illustrated in which the member 28, irrespective of its particular form, has its lower end interrupted as at 35 whereby a constricted space is afforded. The foot piece 32 is formed on each side thereof with recesses 36 affording in said foot piece a central portion of constricted diameter in one direction. The foot piece 32 is designed to be introduced into the apertured end 31 of the member 28 by having the reduced portion thereof passed through the constricted space 35, and in such relation, a locking engagement of said foot piece and said member is effected by a partial rotation of the former.

In the embodiment of the invention shown in Fig. 4, caps 37 of ornamental design are imposed upon the upper ends of the posts 22 in order to give the structure a finished appearance.

In Fig. 6 a modification of lower suspension element is illustrated, which may be advantageously employed. As shown, the sections 3 are provided at their adjacent ends with members 38 of bar metal, and which are hinged together so as to form the joint 4. Similar members 39 are provided, being the inner ends of extensions 5 attached to the extreme ends of said sections, and between the members 38 and 39 a light flattened bar 40 is arranged and is employed in lieu of the slot 30 previously described, to permit of the adjustment of the member 28. The said member 28 in the construction of Fig. 6 differs from that of Fig. 3 in that its upper end is twisted at an angle as at 41 and is provided with an opening 42, the lower edge of which serves to engage

under-cut notches 43 arranged in the bar 40. The notches 43 are arranged in spaced relation in accordance with the degrees of adjustment desired.

In Fig. 8 the member 28 has connection at its upper end with the adjacent section 3 and at its lower end carries a split collar 44 which surrounds the post 22 and is provided with parallel ears 45 through which a set screw 46 is threaded for the purpose of tightening said collar upon said post. In Fig. 9 the posts 22 are braced transversely by a cross rod 47 arranged in parallelism to the bar 2 and provided with apertured ends which fit over the upper ends of said post. U-shaped supporting members 48 are carried by and upon said posts and are provided with upturned ends 49 which engage in corresponding recesses provided in the ends of the rod 47.

In the embodiment of the invention illustrated in Fig. 9, the posts 22 are formed at their upper ends with threads 50 upon which a suitable ornamental cap 51 and 37 is secured.

In practical use, the posts 22 are set in the ground and the frame A is set to the desired height with relation thereto, the suspension elements 23 and 28 being adjustably positioned as will be readily apparent from the several disclosures illustrated. When the frame A has been moved to the desired position, said frame is locked in such position by means of transverse keys 52 illustrated in Fig. 2 which pass through the extensions 5 and frictionally or positively bite the sides of said posts, according to the particular construction of key employed which is immaterial to the ends of the present invention.

In carrying the structure from place to place the posts 22 are disengaged from the frame. Said posts are hollow for the sake of lightness and accordingly afford a convenient receptacle for the bars 23. The members 28 having loose connection with the sections 3 are folded upon said sections, and the bars 2 disengaged therefrom. The sections 3 are then folded upon themselves and the post 22 inserted between the confronting flanges of said sections in their folded disposition. The sections 3 and the bars 2 having been disassembled in the manner described are rolled into a small package and the structure is then suitably tied together.

While the elements herein shown and described are well adapted to serve the functions set forth, it is obvious that various minor changes may be made in the proportions, shape and arrangement of several parts without departing from the spirit and scope of the invention as defined in the appended claims.

Having fully described my invention I claim:

1. A bed of the type set forth comprising supporting corner posts, end and side bars suspended therefrom, diagonal braces extending from the upper and lower ends of said corner posts and having connection with said respective end and side bars, and detachable means carried upon the upper and lower ends of said corner posts for preventing the displacement of said diagonal braces in the assembled relation of the parts.

2. A bed of the type set forth comprising end and side bars, corner posts loosely projected through the ends of said side bars, inclined end braces carried upon the upper ends of said corner posts and having their free ends connected to said end bars in adjustable relation at selected points, said side bars having adjacent their ends longitudinal slots, and inclined side braces carried upon the ends of said corner posts and having their free ends loosely connected and working in said slots.

3. A bed of the type set forth comprising end and side bars, corner posts loosely projected therethrough, and in-

clined end and side braces suspended from each of said corner posts, said end braces having at their free ends adjustable fixed connection with said end bars and said side braces having at their free ends slidable connection with said side bars.

5 4. A bed of the type set forth including corner posts, a frame suspended therefrom, said frame comprising end and side bars having detachably interlocked engagement, said side bars having recesses and said end bars having
10 projections interfitting in said recesses, and a bolt carried by said side bars and engaging said end bars to prevent accidental displacement of said bars in their engaged relation.

5. A bed of the type set forth including corner posts, a frame suspended therefrom, said frame comprising end 15 and side bars having detachably interlocked engagement at their adjacent ends, swinging braces carried at the ends of said side bars and locking catches therefor on the adjacent ends of said end bars.

In testimony whereof I affix my signature in presence 20 of two witnesses.

MARCELLUS J. SCANLAN.

Witnesses:

CHARLES J. PATTON,
J. M. HAYES.