J. H. JOHNSON.

COLLAPSIBLE BED.

APPLICATION FILED NOV. 21, 1921.

1,435,398. Patented Nov. 14, 1922.

2 SHEETS—SHEET 1.

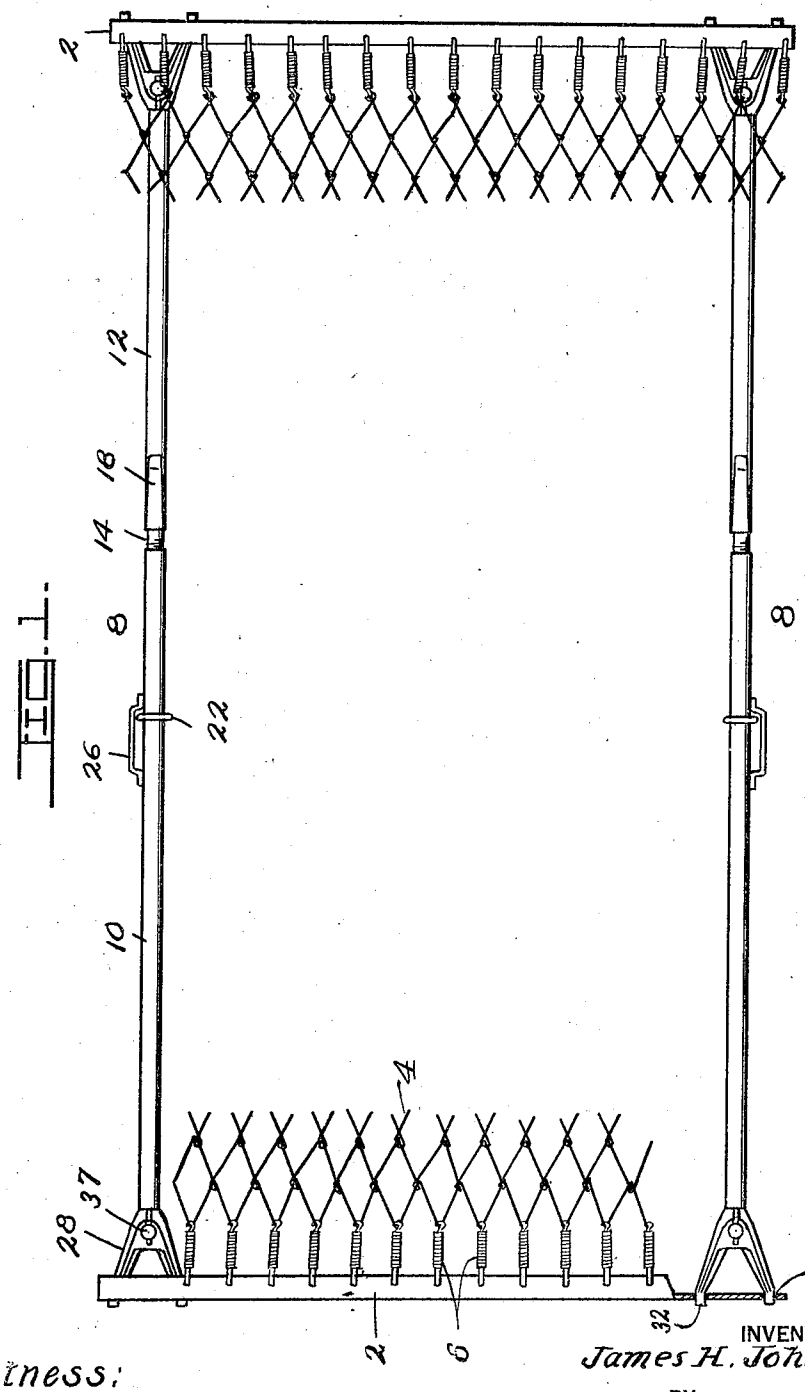


FIG. 1.

Witness:
Fred G. Fischer,

INVENTOR
James H. Johnson,
BY
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ATTORNEY

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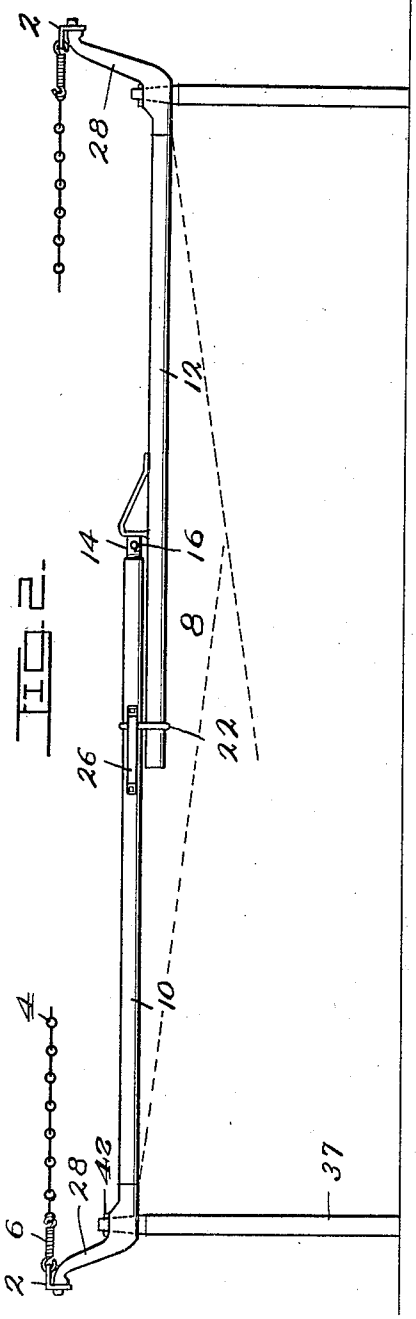


FIG. 2.

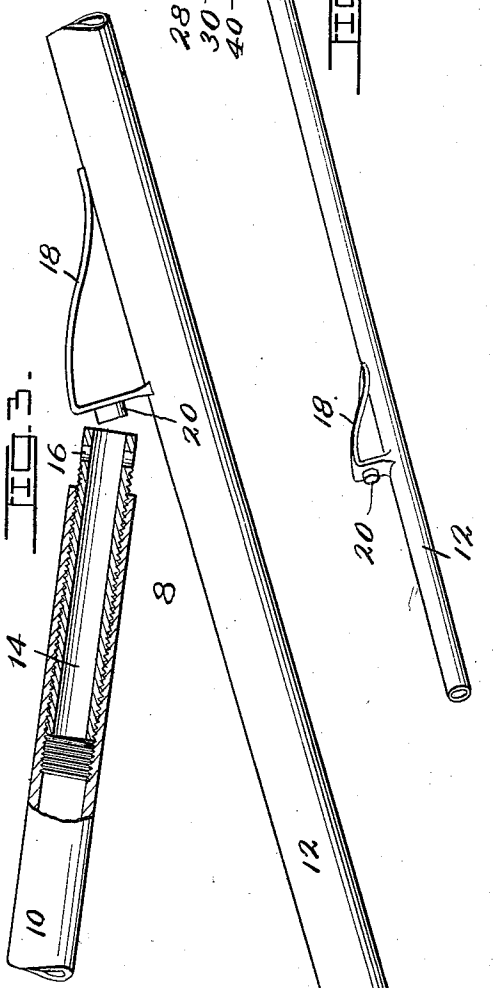


FIG. 3.

FIG. 4.



FIG. 5.

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Patented Nov. 14, 1922. 1,435,398

UNITED STATES PATENT OFFICE.

JAMES H. JOHNSON, OF KANSAS CITY, MISSOURI, ASSIGNOR OF FORTY-NINE PER CENT TO ALEXANDER L. SMITH, OF EUDORA, KANSAS.

COLLAPSIBLE BED.

Application filed November 21, 1921. Serial No. 516,580.

To all whom it may concern:

Be it known that I, JAMES H. JOHNSON, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Collapsible Beds, of which the following is a specification.

My invention relates to collapsible beds and my objects are to provide a simple, inexpensive and substantial bed of this character which can be quickly taken down and rolled into compact form for transportation and storage, or easily set up for use when needed.

In order that the invention may be fully understood, reference will now be made to the accompanying drawings, in which:

Fig. 1 is a plan view of the bed with a portion of the mattress broken away.

Fig. 2 is a side elevation of the bed.

Fig. 3 is an enlarged fragmentary detail partly in section of two members constituting each side rail of the bed.

Fig. 4 is a detail perspective view of one member of a side rail and a yoke connected thereto.

Fig. 5 is a detail perspective view of one of the legs of the bed.

Referring now in detail to the different parts, 2 designates a pair of end rails which are, preferably, made from angle iron to gain lightness and rigidity.

4 designates a wire mattress of suitable formation which is connected to the end rails 2 through the intermediacy of coil springs 6.

8 designates the two side rails of the bed. Each side rail, in the present instance, consists of members 10 and 12. The member 10 is provided at one end with an adjustable tubular element 14 which is threaded into the member 10 and provided with diametrical openings 16 through which a pin may be inserted to rotate the element 14 for the purpose of adjusting it inwardly or outwardly to shorten or lengthen the associate side rail 8 and tension the mattress 4 accordingly.

Each member 12 is provided with a fixedly-mounted abutment 18 having a lug 20 adapted to fit into the adjacent end of the tubular element 14 to hold it and the member 10 in parallel relation to the member 12. A retaining member 22 in the form of a ring or loop is slidably mounted upon the member 10 to engage the adjacent end of the member 12 and thus coact with the element 14, the abutment 18, and the lug 20 in holding the members 10 and 12 in parallel relation. The retaining member 22 is held upon the member 10 by a keeper 26 to prevent said retaining member 22 from becoming displaced or lost.

28 designates a yoke, one of which is fixed to each end of the side rails 8. Each yoke 28 embodies two prongs 30 terminating in lugs 32 adapted to extend through corresponding openings 36 in the end rails 2 and support the same in proper relation to the side rails 8. The prongs 30 are provided with depending stops 34 which bear against the adjacent sides of the end rails 2 and hold the lower flanges thereof in vertical position.

37 designates the legs of the bed, each of which is tapered at its upper end as indicated at 38 to removably fit into a corresponding socket 40 in the associated yoke 28.

Pins 42 are passed through openings in the upper ends of the legs 37 to firmly hold the same in position.

In setting up the bed the end rails 2 are connected to the side rails 8 by being placed in position upon the lugs 32 of the respective yokes 28. The legs 37 are then placed in position in the sockets 40. The two members of each side rail 8 are then extended at oblique angles to each other as indicated by the dotted lines, Fig. 2, and the solid lines, Fig. 3. The adjustable elements 14 are then placed in position over the lugs 20, after which the lower ends of the members 12 are pulled upwardly and thereby raise the lower ends of the members 10 until said members 10 and 12 are in parallel relation, when they are secured by slipping the retaining members 22 over the adjacent ends of the members 12. When the lower ends of the members 10 and 12 are pulled upwardly as stated, they in effect, act as levers with the legs 37 as fulcrums and rock the upper ends of the yokes 28 outwardly and thus pull the mattress 4 taut, so that the same cannot sag but little if any under the weight of one or more persons.

When the bed is not in use it may be folded into compact form by disconnecting the members 10 and 12, removing the legs 37, and disconnecting the yokes 28 from the

end rails 2. The members 10 and 12 of the side rails 8, which are of about the same length as the end rails 2, are placed alongside of the end rails 2 with the legs 37 and then rolled up in the mattress 4, making a compact bundle of but a few inches in diameter and no longer than the end rails 2.

The operation of setting up or taking down the bed can be easily accomplished by one person.

From the foregoing description it will be understood that I have produced a collapsible bed which may be used to advantage by persons touring in automobiles, or as a spare bed, or for use on a sleeping porch; and while I have shown and described the preferred construction, combination and arrangement of parts, I reserve the right to make such changes as properly fall within the spirit and scope of the appended claims.

Having thus described my invention, what I claim and desire to secure by Letters Patent, is:

1. In a bed of the character described, a side rail consisting of two members, an abutment fixed to one of said members, a lug on said abutment, a tubular element engaging said lug and threaded into the companion member to lengthen and shorten the side rail, and a loop to coact with the lug and the abutment in removably connecting the two members together.

2. In a bed of the character described, a side rail consisting of two members, an abutment on one of said members, an adjustable element on the companion member to engage said abutment, and a retaining member to coact with the abutment in removably connecting the two members.

3. A bed of the character described consisting of two end rails, two side rails, a yoke secured to each end of each side member and provided with a socket and two prongs which latter removably engage the end rails, and legs removably secured in said sockets.

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

JAMES H. JOHNSON.

Witnesses:
L. J. FISCHER,
F. C. FISCHER.