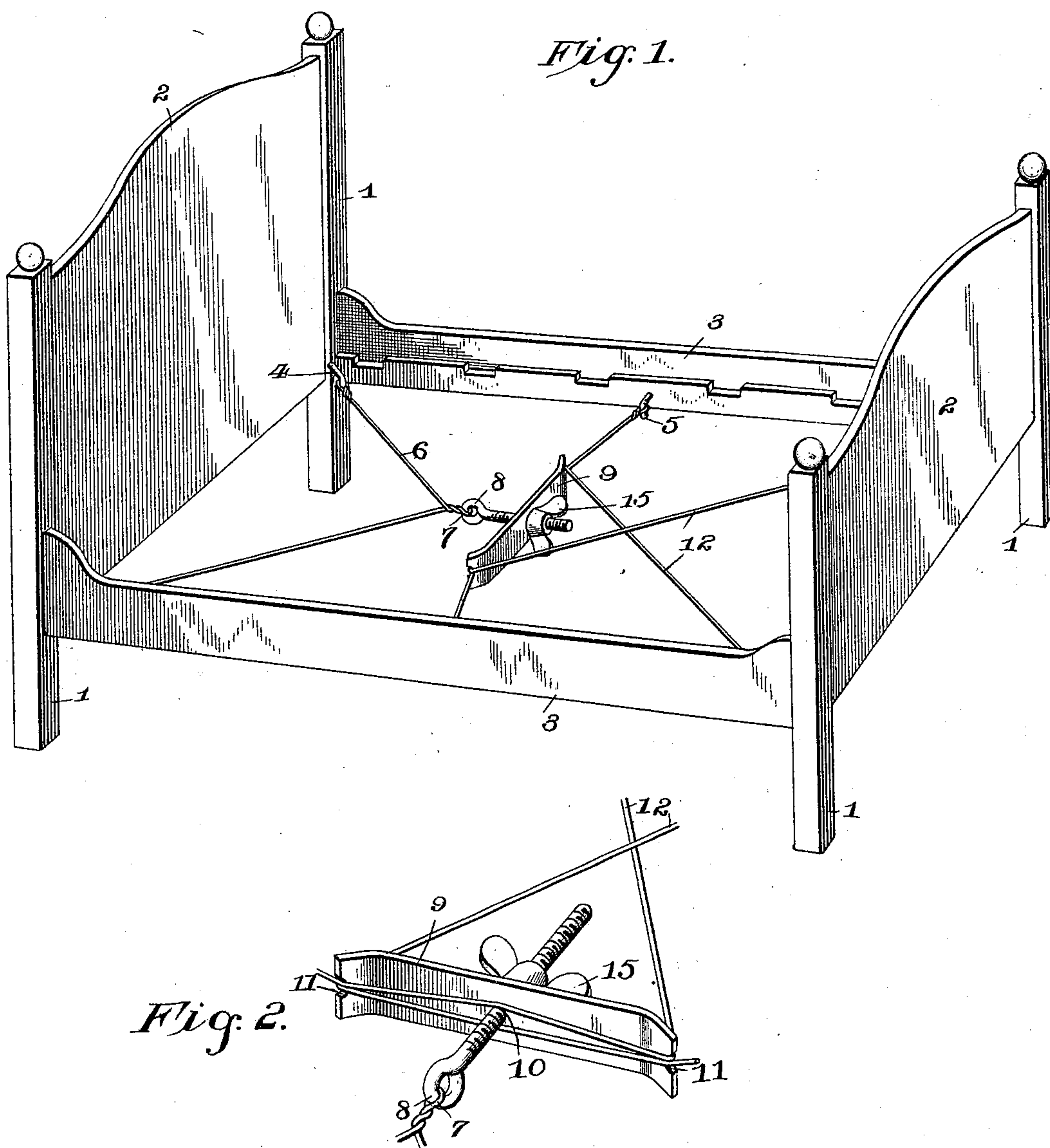


(No Model.)

N. CLARK.
BED BRACE.

No. 516,474.

Patented Mar. 13, 1894.



Inventor
Neill Clark,

Witnesses
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By his Attorneys.

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UNITED STATES PATENT OFFICE.

NEILL CLARK, OF MANCHESTER, NORTH CAROLINA.

BED-BRACE.

SPECIFICATION forming part of Letters Patent No. 516,474, dated March 13, 1894.

Application filed December 20, 1893. Serial No. 494,209. (No model.)

To all whom it may concern:

Be it known that I, NEILL CLARK, a citizen of the United States, residing at Manchester, in the county of Cumberland and State of North Carolina, have invented a new and useful Bed-Brace, of which the following is a specification.

My invention relates to bed-braces; the objects in view being to produce an extremely simple, light, strong and durable brace, that may be readily applied to any ordinary style of bed for drawing the parts together in a convenient manner, and which is capable of ready adjustment, is under constant tension, and may be readily disconnected when desired for any purpose whatsoever without removing the brace from the bedstead, and will permit of a separation of the parts of the bedstead.

Various other objects and advantages of the invention will appear in the following description, and the novel features thereof will be particularly pointed out in the claim.

Referring to the drawings:—Figure 1 is a perspective view of a bed brace embodying my invention. Fig. 2 is a detail of the transverse spring brace yoke.

Like numerals of reference indicate like parts in both figures of the drawings.

In the present instance the numerals 1 indicate the four posts of a bedstead, 2 the head and foot-boards connecting the posts in pairs, as is usual, and 3 the opposite sides of the bed which are locked to the posts by suitable locks, the said bedstead being of the ordinary construction and employed simply to illustrate the application of my brace. I insert in the inner corner of each post a screw-eye 4, and at the inner side of each of the side-bars 3 an inverted L-shaped screw 5, the same having its outer extremity depending, as shown.

I connect to the two screw-eyes 4 of those posts 1 at the head of the bed a V-shaped brace-wire 6, the same tending inward toward the center of the bed, short of which it terminates, and is there twisted to form an eye 7, which eye is loosely connected with an eye-bolt 8. This eye-bolt passes loosely through a transversely disposed spring-yoke 9, the same having its center perforated at 10 for the reception of

the bolt and its opposite ends slightly bent toward the head of the bed and provided with notches 11.

To those eye-bolts 4 at the foot of the bed I connect the extremities of two brace-wires 12, the said brace wires being passed in diagonally opposite directions over opposite ends of the yoke 9 and resting in the notches 11 thereof and connected to the L-shaped screws 5. The wires therefore form an X-shaped brace or in other words between the eyes to which they are connected and the yoke they are crossed, as shown at 13. The wires 6 and 12 are permanently attached to the eyes 4 and the latter wires loosely attached to the L-shaped screws 5.

In rear of the spring-yoke, I locate upon the eye-bolt 8 a thumb-nut 15, which, when run down upon the bolt, serves to draw the V-shaped brace-wire 6 toward the center of the bed and the X-shaped brace-wire 12 in a similar direction. It will be observed, therefore, that by a tightening of the nut 15 upon the bolt all of the wires are drawn equally, that is to say, the tension is equal, and the four posts are all drawn to the center of the bed, as are also the sides 3. It will be seen that the expansion of the wood is permissible without springing the same by reason of the yoke being formed of spring-metal, and also that the tension is of a yielding nature or kind and not so rigid as to in any way injure the wood from which the bedstead is constructed. Furthermore, if at any time looseness should occur, the spring-yoke will compensate for the same and take up the slack, so that the condition of the brace-wires does not require such constant attention upon the part of the user, but an occasional examination and tightening are all that will be necessary.

If at any time it should be desired to separate the parts of the bedstead, my invention provides for this contingency, and it requires simply a loosening of the nut upon the eye-bolt and a removal therefrom. Such a removal permits the brace-wires 12 to drop from the L-shaped screws and to go with and be folded upon the posts at the foot of the bed, and the V-shaped wire to go with and be folded upon the posts at the head of the bed, so that all parts are promptly disconnected

with little or no delay, and without the requirement of wrenches or other tools that may not always be at hand.

From the foregoing description in connection with the accompanying drawings it will be seen that I have provided a very simple, light, strong and durable brace, consisting of few parts, which are readily assembled and as readily disconnected, and which may be set up and maintained in position by any one though they may be unused to such arrangements.

Having described my invention, what I claim is—

15 The combination with a bedstead, of eye-bolts 4 located in the corner posts, the L-shaped screws 5 in the sides of the bed, a central transverse curved spring-yoke 9 notched at its ends, an eye-bolt 8 passed through a per-

foration in the yoke and provided in rear of 20 the latter with a nut, a brace-wire 6 of V-shape connected to the eye-bolts at the head of the bed and engaging at its angle with the eye-bolt of the yoke, and an X-shaped brace consisting of the wires 12 connected to the eye- 25 bolts at the foot of the bed, passed in opposite directions about the spring-yoke, and engaging and resting in the notches of the same and connected at their opposite ends with the L-shaped screws 5 at the sides of the bed, 30 substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

NEILL CLARK.

Witnesses:

H. L. HULL,

C. L. CAMPBELL.