

(No Model.)

V. HUMPHREY.  
BED BRACE.

No. 489,479.

Patented Jan. 10, 1893.

Fig. 1.

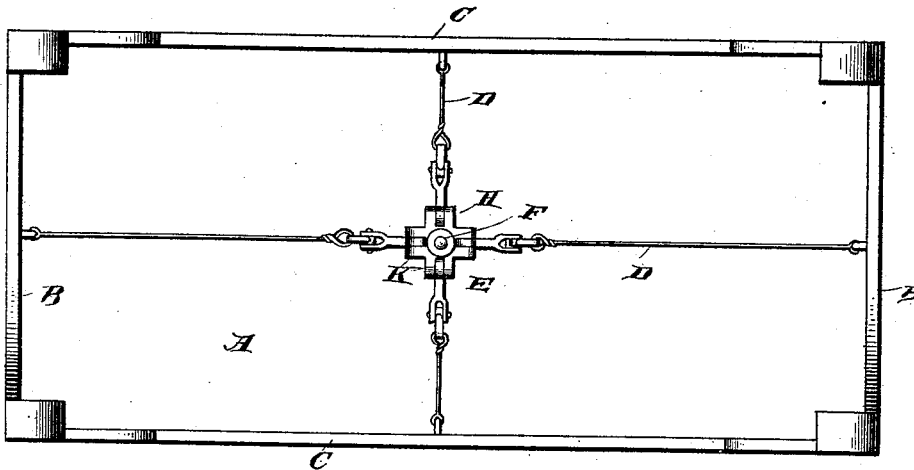


Fig. 2.

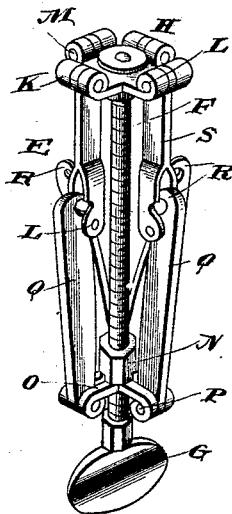
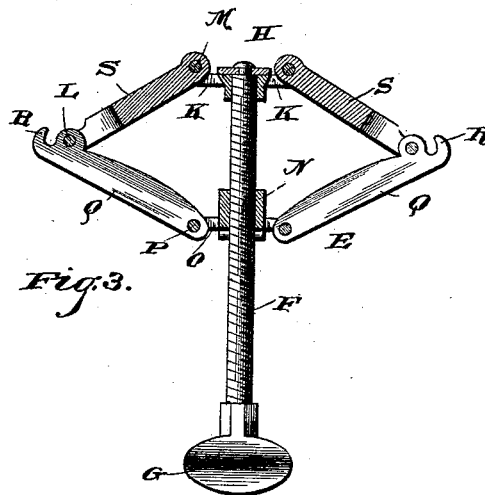


Fig. 3.



Witnesses

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# UNITED STATES PATENT OFFICE.

VICTOR HUMPHREY, OF LEXINGTON, NORTH CAROLINA.

## BED-BRACE.

SPECIFICATION forming part of Letters Patent No. 489,479, dated January 10, 1893.

Application filed September 10, 1892. Serial No. 445,494. (No model.)

*To all whom it may concern:*

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

My invention relates to improvements in bed-braces, the objects in view being to provide a simple—cheap, and effective tightening device by means of which the frame of a bedstead may be drawn together, to prevent the separation of the joints and the loosening of the slats.

With these and further objects in view the invention consists in a certain novel construction, combination and arrangement of parts which will be fully described hereinafter in connection with the drawings, and specifically pointed out in the appended claims.

In the drawings:—Figure 1 is a plan view of a bedstead provided with my improved brace; Fig. 2 is a detail view in perspective of the clamp; Fig. 3 is a central vertical sectional view of the clamp.

A represents the bedstead, having the head-rails,—B B, and the side-rails, C C, to which rails are attached, respectively, the outer ends of the draw-wires, D. At the center of the bedstead, intermediate between the several rails, is arranged the clamp, E, having a central, vertical screw, F, provided at its lower end with a finger-hold, G, and swiveled at its upper end in a bearing formed in the cross-head, H. This cross-head is provided with radial arms, K K, which are bifurcated and provided with bearings, L, for the transverse pivot-pins, M.

N represents a vertically movable or adjustable spider having a central tapped bore through which passes the screw F, the arms, O, of the spider being bifurcated and provided with pivot-pins, P, similar to those upon the cross-head. Mounted upon the pivot-pins of the spider are swinging arms, Q, provided at their outer ends with hooks, R, which are engaged with the tightening wires, above-mentioned, and intermediate points of these arms are connected with the cross-head by the con-

necting-arms, S, all as clearly shown in Fig. 2 of the drawings.

In operation, after the outer ends of the tightening wires are secured to the bed-rails and their inner ends connected, as described to the hooks upon the outer ends of the swinging-arms, (said arms being spread as shown in full lines in Fig. 3,) the screw is turned so as to draw the spider toward the lower end of the screw, or separate the spider and cross-head. This draws the hooked terminals of the swinging arms toward the central screw, and, consequently tightens the wires, as will be readily understood.

Having thus described my invention, what I claim and desire to secure by Letters Patent of the United States, is:—

1. In a bed-brace the combination with tightening wires of a clamp comprising radially-disposed toggle-levers, having said wires connected to their joints, and united at their free ends for simultaneous adjustment, and means to adjust the toggle-levers, substantially as specified.

2. In a bed-brace, the combination with the tightening wires, the clamp comprising a central screw, a cross-head swiveled upon one end of the screw, a spider threaded upon the screw, and the toggle arms connecting the cross-head and spider, the tightening-wires being connected to the joints of said toggle-arms, substantially as specified.

3. In a bed-brace, the combination with the tightening wires, of the clamp comprising a central screw, a swiveled cross-head, having bifurcated arms, a spider threaded upon the screw and having bifurcated arms, the swinging-arms pivoted to the arms of the spider and having hook-shaped outer ends, the connecting arms between said arms and the cross-head, 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.

VICTOR HUMPHREY.

Witnesses:

H. T. PHILLIPS,  
H. S. GREEN.