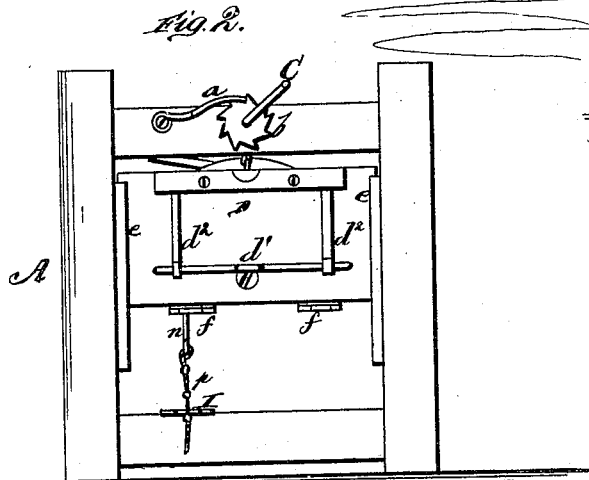
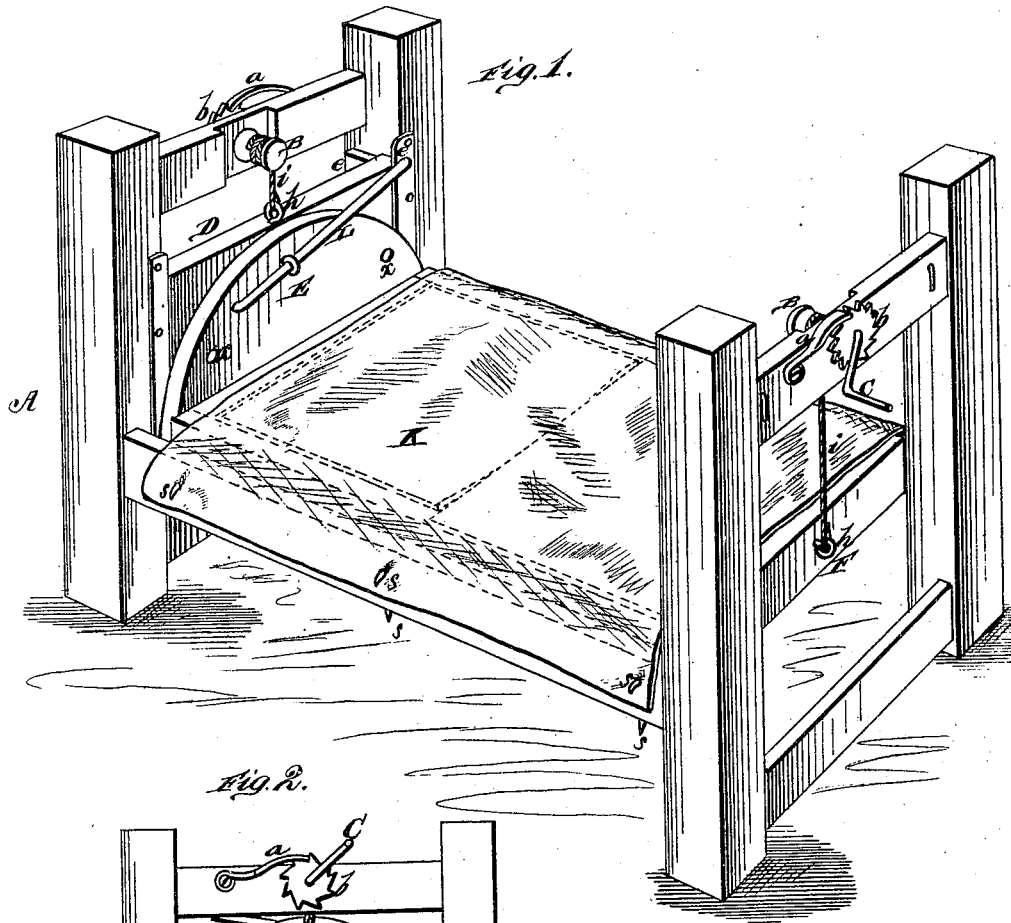


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Invalid-Bedstead.

No. 205,659.

Patented July 2, 1878.



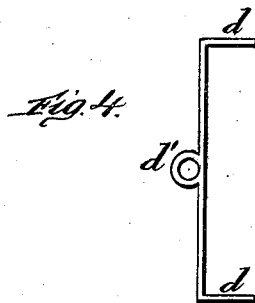
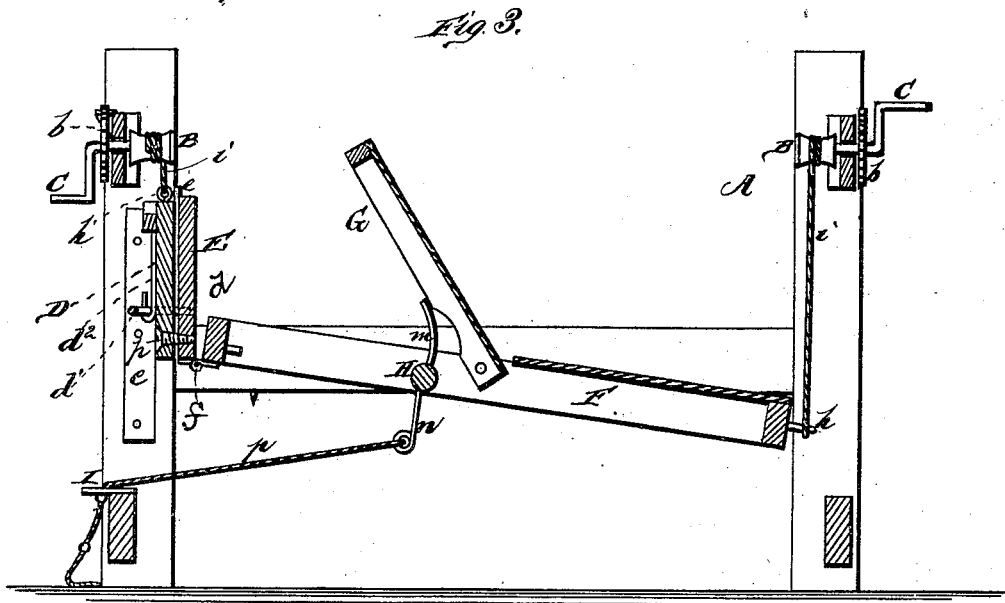
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# UNITED STATES PATENT OFFICE.

JAMES W. LOVINS AND HIRAM GIBSON, OF CLINTONVILLE, MISSOURI.

## IMPROVEMENT IN INVALID-BEDSTEADS.

Specification forming part of Letters Patent No. **205,659**, dated July 2, 1878; application filed February 23, 1878.

To all whom it may concern:

Be it known that we, JAMES W. LOVINS and HIRAM GIBSON, of Clintonville, in the county of Cedar and State of Missouri, have invented a new and valuable Improvement in Invalid-Couches; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a perspective view of our invalid-couch. Fig. 2 is an end view, Fig. 3 is a longitudinal vertical section, and Fig. 4 is a detail view, thereof.

The nature of our invention consists in the construction and arrangement of an invalid-couch, as will be hereinafter more fully set forth.

The annexed drawing, to which reference is made, fully illustrates our invention.

A represents a bedstead of any suitable construction, provided at the top, in the center, at each end, with a spool or drum, B, turned by a crank, C, and a pawl and ratchet, *a b*, connected therewith, as shown.

At the head end of the bedstead, on the inner sides of the posts, are suitable guides or ways *e e*, between which is placed a dash or board, D, capable of moving up and down therein. To this slide D, in the center, near the bottom, is pivoted a head-piece, E, which is capable of turning on its pivot *p*, and may be held in any position desired by means of two pins, *d d*, passing through the slide D from the back and entering any two of a series of holes or recesses, *x x*, made in the back of the head-piece. The two pins *d d* are connected by means of a handle, *d'*, and pressed inward by means of springs *d<sup>2</sup> d<sup>2</sup>*, as shown.

To the lower edge of the head-piece E is, by means of hinges *f f*, connected a frame, F, having a swiveled projection, *h*, in the center of its opposite end. To the center of the slide D at the top and to the swiveled lug *h* are attached cords or chains *i i*, which connect the same with the two drums B B, whereby the frame or bed-bottom F can be raised or

lowered at either one or both ends, as may be required.

The head end of the frame F is provided with an auxiliary frame, G, pivoted at or near the center of the main frame, and closing within the main frame F. Under this auxiliary frame, in the sides of the main frame, is journaled a roller or rocking shaft, H, from which project two arms, *m m*, under the side bars of the frame G. The shaft H is further provided with an arm, *n*, to which is connected a knotted cord, *p*. By pulling on this cord the shaft H is turned in its bearings, so that the arms *m* will raise the frame G more or less, as required, and it is held by inserting the cord in a clamp, I, upon a cross-bar at the head end of the bedstead.

The head-piece E is provided with a handle or lever, L, for convenience in turning the same on its pivot.

With this apparatus, which is intended principally for hospital purposes, we can move a patient in any position required, turn from side to side, place him in an inclined or nearly perpendicular position, and raise his head and body.

The frames F and G are, of course, provided with suitable canvas or mattresses. When it is desired to change the patient from the bed to a canvas, he is placed on the back on the bed, and, by drawing out the pins *d d*, the patient is revolved to the right side. Then take the canvas K and fold up a sufficient portion thereof and place it close to the patient's back. Then revolve or turn the bed to the left, take that portion of the canvas that the patient has passed over and draw down and fasten to knobs *s s* on the side rail of the bedstead, and then fasten the other side of the canvas in the same manner, after which the bed is let down, the patient remaining on the canvas.

In like manner the patient can be changed from the canvas to the bed.

What we claim as new, and desire to secure by Letters Patent, is—

1. The combination of the frame F, hinged to the head-piece E, pivoted to the slide D, the ropes *i i*, and pulleys or drums B B with

cranks and ratchets, substantially as and for the purposes set forth.

2. The combination of the slide D, the head-piece E pivoted thereto and provided with holes *x*, the pins *d*, handle *d*<sup>1</sup>, and springs *d*<sup>2</sup>, and the frame F, hinged to the head-piece E, all substantially as and for the purposes set forth.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

JAMES W. LOVINS.  
HIRAM GIBSON.

Witnesses:

L. M. FRENCH,  
S. J. VANDENBERGH.