

G. IVESON.
Invalid-Bedstead.

No. 210,126.

Patented Nov. 19, 1878.

Fig. 1.

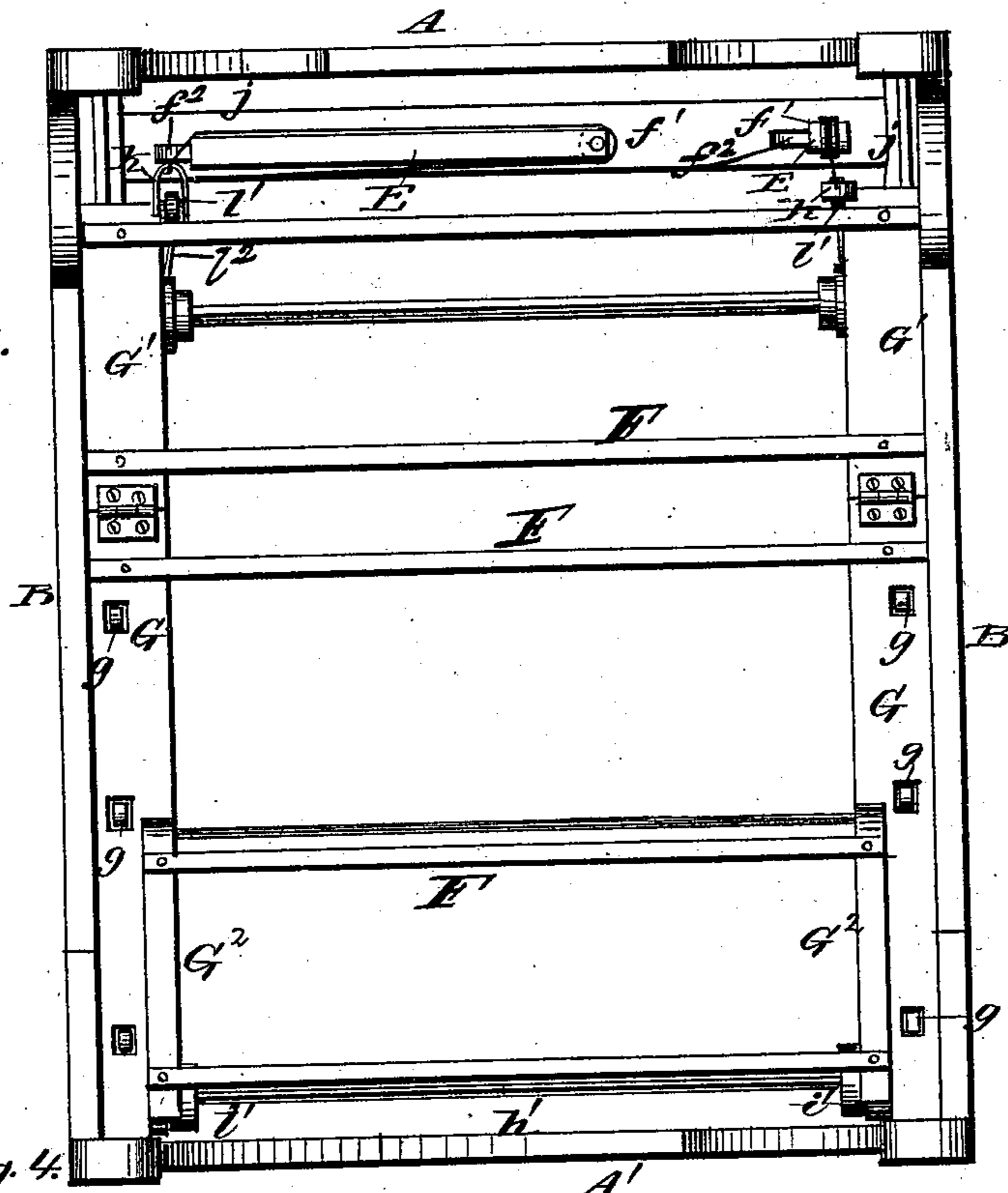
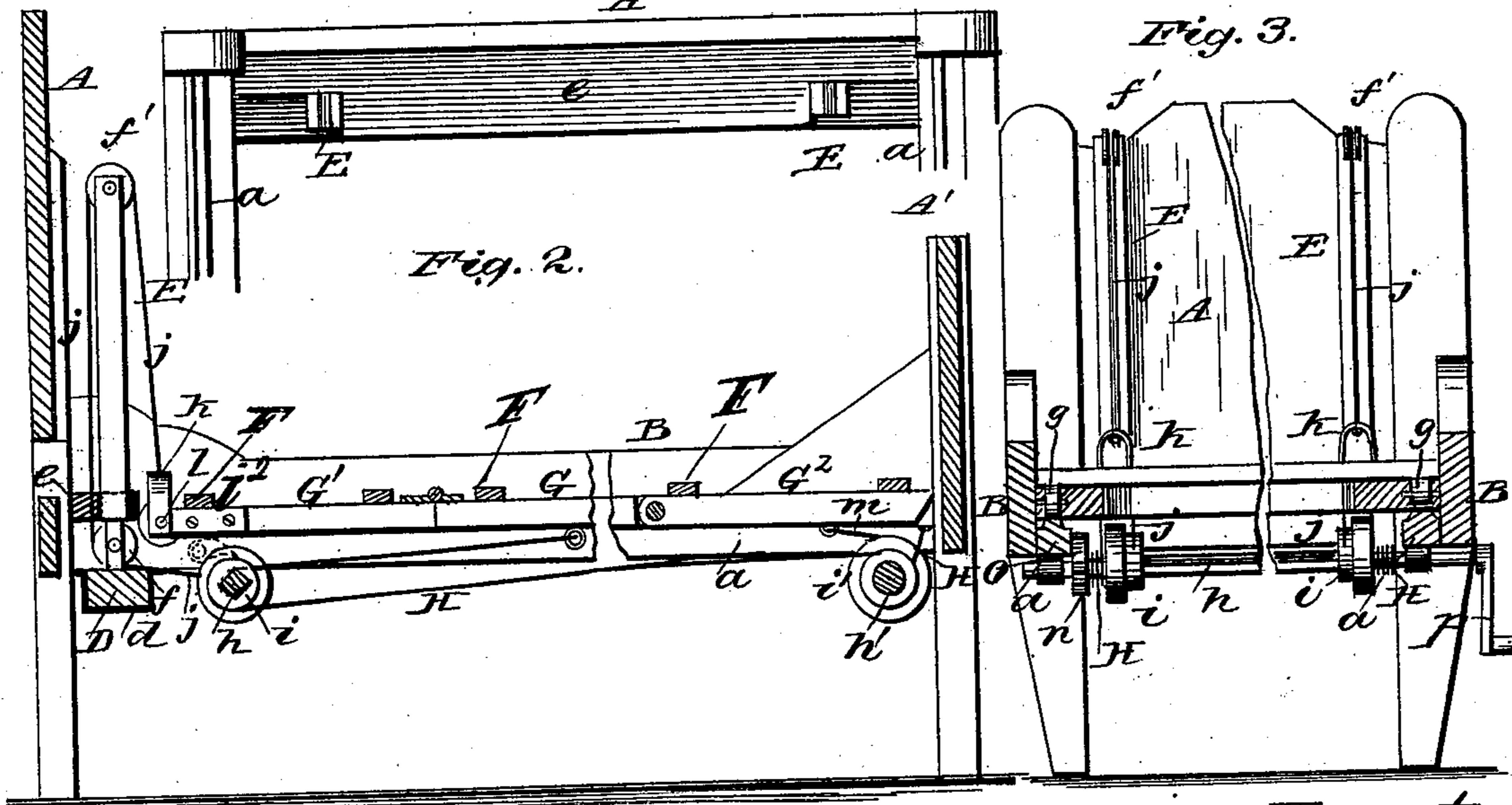


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

GEORGE IVESON, OF GREENWICH STATION, OHIO.

IMPROVEMENT IN INVALID-BEDSTEADS.

Specification forming part of Letters Patent No. **210,126**, dated November 19, 1878; application filed July 22, 1878.

To all whom it may concern:

Be it known that I, GEORGE IVESON, of Greenwich Station, in the county of Huron and State of Ohio, have invented certain new and useful Improvements in Bedsteads; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a plan view of my improved bedstead. Fig. 2 is a longitudinal section thereof. Fig. 3 is a cross-section of the same; and Fig. 4 is a detailed plan view, showing the standard-holding bar at the head end of the bedstead.

Corresponding parts in the several figures are denoted by like letters.

This invention relates to certain improvements in bedsteads, particularly applicable for use in sick-chambers, its special object being to promote the comfort of invalids and the sick.

The nature of this invention consists in the simultaneous moving toward the head end of the bedstead of the slat-supporting pieces, with the upwardly inclining of that end of said pieces, and vice versa, substantially as herein-after more fully set forth.

In the annexed drawing, A A' refer, respectively, to the head and foot boards, and B B to the side rails, to the inner sides of which are secured strips or rails *a a*, the function of which will presently be seen.

D is a cross-bar, affixed to the lower side of the rails *a a*, at the head end of the bedstead, by means of clips or bows *d*. E E are two standards, pivoted in or to the bar D, whose pivots pass through lateral extensions or projections *f*² of said standards, by which they can be folded upon said bar down below the bedding out of the way, when not in use. These standards are held in their upright position, when in use, by the placing between their lower ends of a bar, *e*, slotted or cut away to form shoulders for the inner sides of the said standards to rest against, as clearly seen in Fig. 4, which bar is readily removable. In the upper and lower ends of the standards

are pulleys, *f f'*, which will be again mentioned in connection with other parts hereinafter.

F F are the slats, fastened to side pieces G G¹, which are hinged together in two sections, the shorter section, G¹, being arranged at the head end of the bedstead. The longer section, G, is provided with a supplemental inner hinged section, G². The side pieces G G¹ are provided with rollers *g g*, which travel upon ways *a a*.

Hung to the under side of the side rails or ways *a a* are two shafts, *h h'*, one being square or angular, as seen particularly in Fig. 2. These shafts are provided with pulleys *i i'*, those upon the shaft *h* located at the head end of the bedstead, having connected to them cords or ropes *j j*, or their equivalents, which first pass under the lower pulleys, *f*, in the same end of the standards E, and thence upwardly to the rear side of said standards and over the pulleys *f'* in their upper ends, after which the said cords or ropes are passed down and connected to pivoted bows or clips *k k*, attached to the head end of the slat-supporting pieces G G¹. The clips or bows *k k* are attached or pivoted to the said pieces G G¹ by short axes or pivots *l*, provided with frictional rollers *l' l'*, Fig. 1, and hung in forked plates or bars *l² l²*, fastened to the pieces aforesaid.

H H are also cords or their equivalents, fastened to and about midway the slat-supporting pieces G G¹, and to the rear ends of said pieces, as clearly indicated in Fig. 2, they being intermediately wound around the angular or square shaft *h* and the smaller diameter of the stepped pulleys *i'* of the shaft *h'*. To the larger diameters of the pulleys *i* are connected the cords *m*, in turn connected to the section G².

A ratchet, *n*, and pawl, *o*, operate to prevent the rotating of the shaft *h*, when desired. To this same shaft is also applied a crank or lever, *p*, for operating it.

The operation is as follows: Turn the crank *p* to the right, when the respective shafts, their pulleys, and the ropes or cords will be put in motion, causing the slat-supporting sectional pieces to be moved toward the head end of the bedstead, and at the same time incline the section G¹ upwardly at the said end of the bedstead, the object of which is to effect the

changing of the reclining position of the occupant of the bed to a sitting or inclining position.

As the head end of the section G^1 of the slat-supporting pieces is being elevated or lowered, the frictional rollers l^1 , traveling in grooves in the standards E , will greatly lessen friction at that point. The pivoted bows or clips k , by which the elevating-cords are connected to the section G^1 of the slat-supporting pieces, will accommodate themselves to the changing angle or position which said section assumes while being elevated.

To the slat-supporting pieces G G^1 may be attached, at the foot end of the bed, guards or means for holding the bedding in place during the raising and lowering of the sectional pieces G G^1 .

It will be observed that, as the slat-supporting pieces are moved toward the head end of the bedstead, the cord m will unwind from the pulley i' and allow the hinged section G^2 to fall or swing down to permit the feet of the occupant of the bed to assume an easy or like

position. A reverse movement of the slat-supporting pieces will cause the winding up, on the pulley i' , of the cord m , and thus elevate the section G^2 to its original horizontal position.

Having thus fully described my invention, I claim and desire to secure Letters Patent of the United States—

The combination, with the bedstead A B , having the rails or ways a , of the slat-supporting pieces G G^1 , hinged together in two sections and provided with rollers g , standards E , having pulleys, f f' cords H and j , and shafts h h' , provided with pulleys i i' , substantially as shown and set forth, for the purpose described.

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

GEORGE IVESON.

Witnesses:

SAMUEL BROWN,
FRANKLIN E. HOLIDAY.