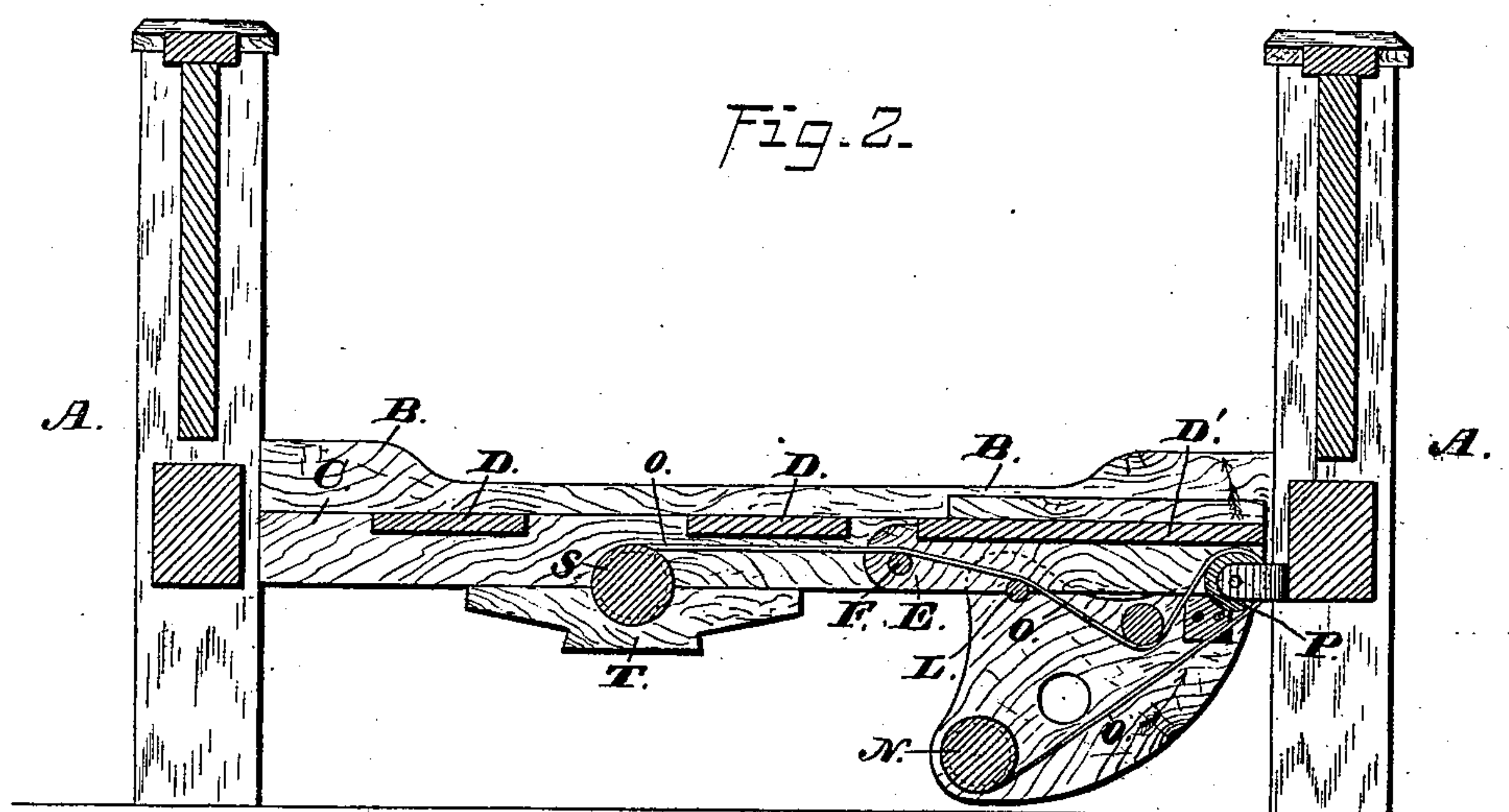
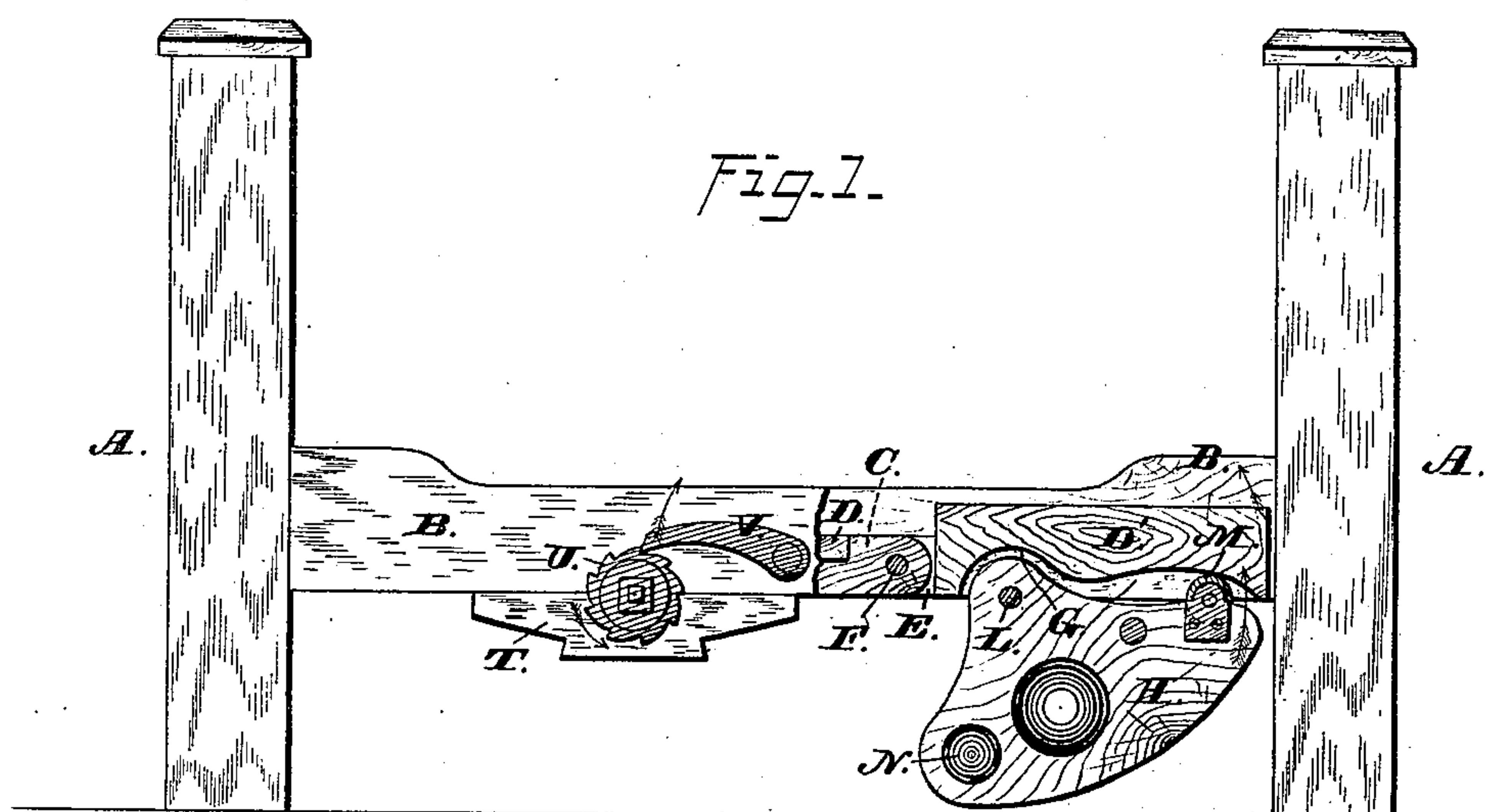


(No Model.)

E. CONOVER.
Invalid-Bedstead.

No. 228,318.

Patented June 1, 1880.



WITNESSES=

Jas. E. Hutchinson.
 J. A. Rutherford

INVENTOR-

Elias Conover,

by James L. Norris,
Att'y.

UNITED STATES PATENT OFFICE.

ELIAS CONOVER, OF TRUMANSBURG, NEW YORK.

INVALID-BEDSTEAD.

SPECIFICATION forming part of Letters Patent No. 228,318, dated June 1, 1880.

Application filed April 13, 1880. (No model.)

To all whom it may concern:

Be it known that I, ELIAS CONOVER, a citizen of the United States, residing at Trumansburg, in the county of Tompkins and State of New York, have invented new and useful Improvements in Invalid-Bedsteads, of which the following is a specification.

This invention relates to certain improvements in invalid-bedsteads; and it has for its object to provide a means for elevating the portion of the bottom of the bedstead which supports that part of the mattress upon which the head and upper portion of the body of the occupant rest without disturbing the occupant.

To this end the invention consists in the combination, with an ordinary bedstead, of a section occupying the place of the slats at the head of the same, which section is pivoted between the side rails of the bedstead, and a lever-frame provided with friction-rollers, upon which the edges of the pivoted section bear, the said frame having connected with it a series of belts, cords, or chains passing over pulleys attached to the head-board of the bedstead and extending forwardly under the bottom of the same, and connected with a transverse shaft provided with a ratchet, with which engages a pawl to hold said shaft in a fixed position, and with a detachable crank for operating said shaft to raise or depress the hinged head-section, all of which will be more fully hereinafter described in detail.

In the drawings, Figure 1 indicates a side elevation of a bedstead embodying my invention, the side rail being broken away; Fig. 2, a longitudinal vertical section of the same.

The letter A indicates a bedstead of the ordinary or any approved construction, and B the side rails thereof. The side rails are rabbeted for a portion of their length, as indicated at C, for the reception and support of the usual slats D.

At the forward end or head portion of the bedstead the rabbets are cut away for the reception of a section, D', provided with projections or lugs E at its front edge, which set between the rabbeted portion of the rails, and are pivoted to a transverse shaft, F, secured to the rails, so that said section may be freely elevated or depressed.

The section D' at each side is provided with curved rabbets or ledges G, as shown in the drawings.

The letter H indicates a lever-frame fulcrumed to a transverse shaft secured at L to the side rails of the bedstead. The upper ends of said lever-frame carry friction-rollers M, which set in the rabbets at the sides of the section D', and travel therein as said lever-frame is operated, serving to elevate or depress the said section.

To the lower end of the transverse rod N of the lever-frame is secured one or more belts, bands, or chains, O, which pass forward toward the head-board of the bedstead and over the pulleys P, journaled in brackets secured to the head-board, and passing rearward toward the foot-board of the bedstead below the slats of the same.

The letter S indicates a transverse roller or drum, the shaft of which is journaled in bearings T, secured to or formed on the side rails of the bedstead, to which the belts, bands, or chains O are secured, as shown. The shaft of said drum or roller projects beyond one of the side rails, and is provided with a rigidly-attached ratchet-wheel, U, with which is adapted to engage a pivoted pawl, V, adapted to engage the ratchet and hold the drum or roller to prevent its rotation.

The projecting end of the roller-shaft is squared, so as to receive a detachable key or crank, by means of which the said drum or roller may be rotated to elevate or depress the swinging section of the bedstead.

The operation of my invention will be readily understood in connection with the above description.

The swinging section, in its normal position, is level or in line with the slats at the bottom of the bedstead. When it is desired to elevate the head and body of the occupant of the bed the roller or drum is rotated by means of the key or crank, winding the belts, bands, or chains thereon, and drawing upon the lever-frame, elevating the upper ends thereof carrying the friction-rollers, and causing said friction-rollers to elevate the swinging or pivoted section to any desired angle, the said section elevating the head portion of the mattress and bed-clothing, together with the up-

per portion of the body of the occupant, to the desired position.

What I claim is—

5 The combination, in a bedstead, of a removable section, pivoted between the side rails of the same and rabbeted at its edges, and a lever-frame, fulcrumed between said side rails and provided with friction-rollers bearing in the rabbets in said section, the belts, chains, or
10 bands attached to said lever-frame and passing over pulleys secured to the head-board,

and the transverse drum or roller, with its ratchets or pawls, whereby said section may be elevated or depressed, substantially as specified.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

ELIAS CONOVER. [L. S.]

Witnesses:

GEO. H. PERRY,
JOHN A. LETTS.