(No Model.)

L. L. LOOMIS.

INVALID BEDSTEAD.

No. 415,211. Patented Nov. 19, 1889.

Fig. 1.

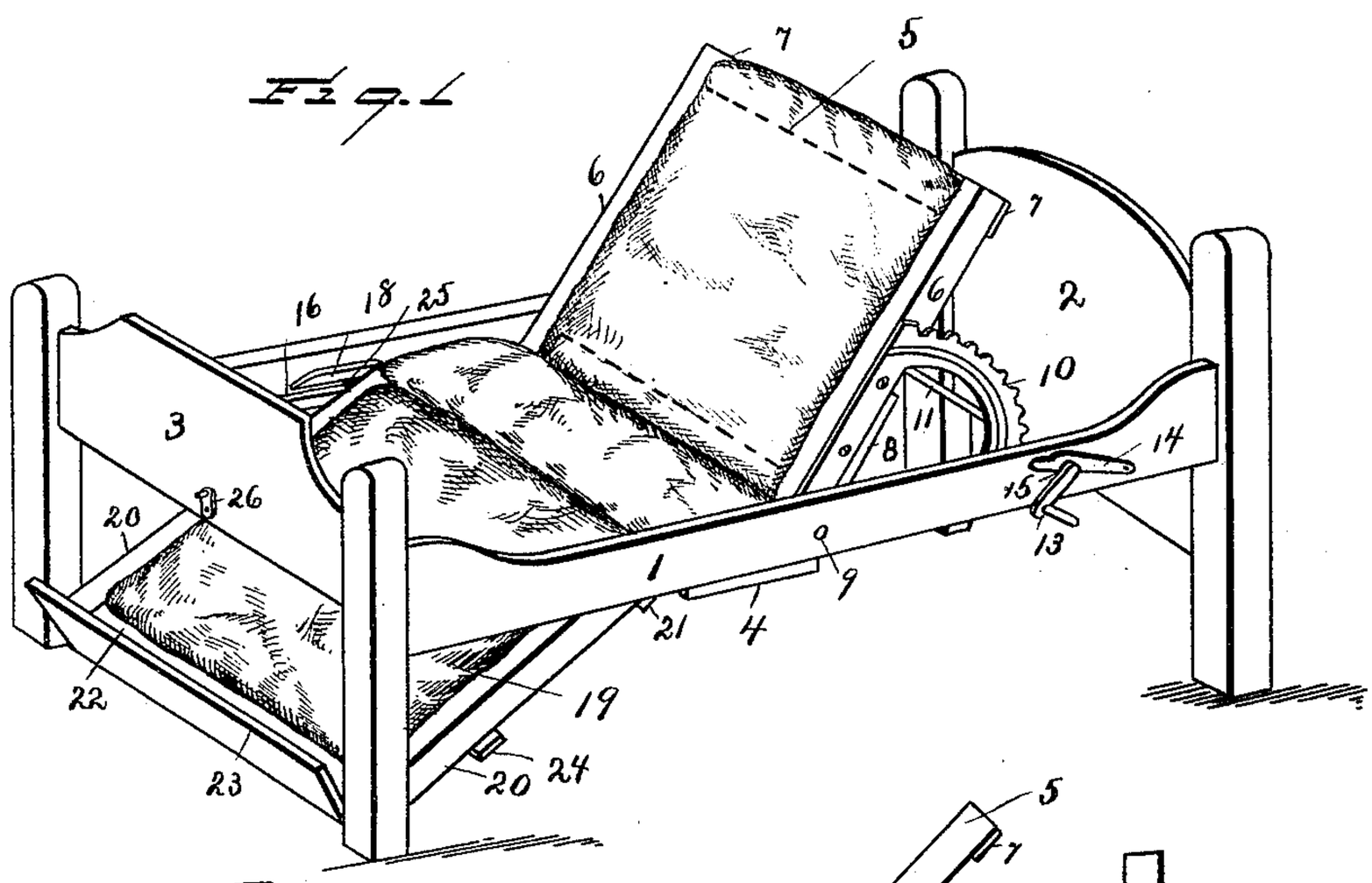


Fig. 2.

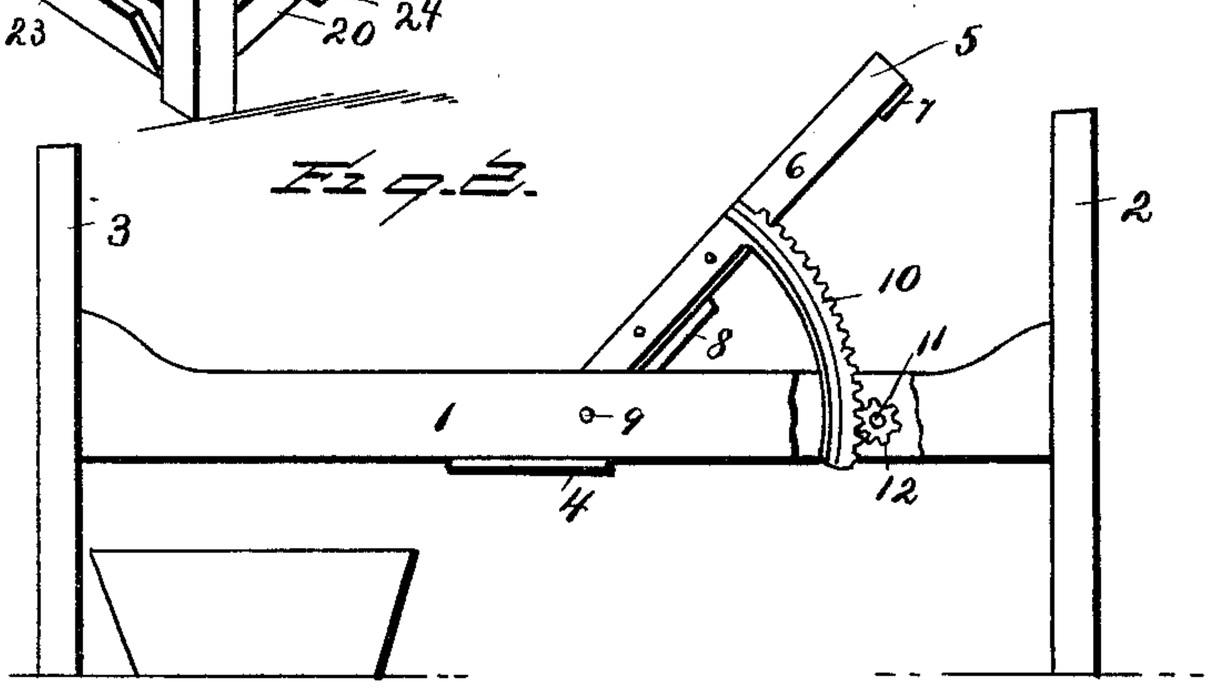


Fig. 3.

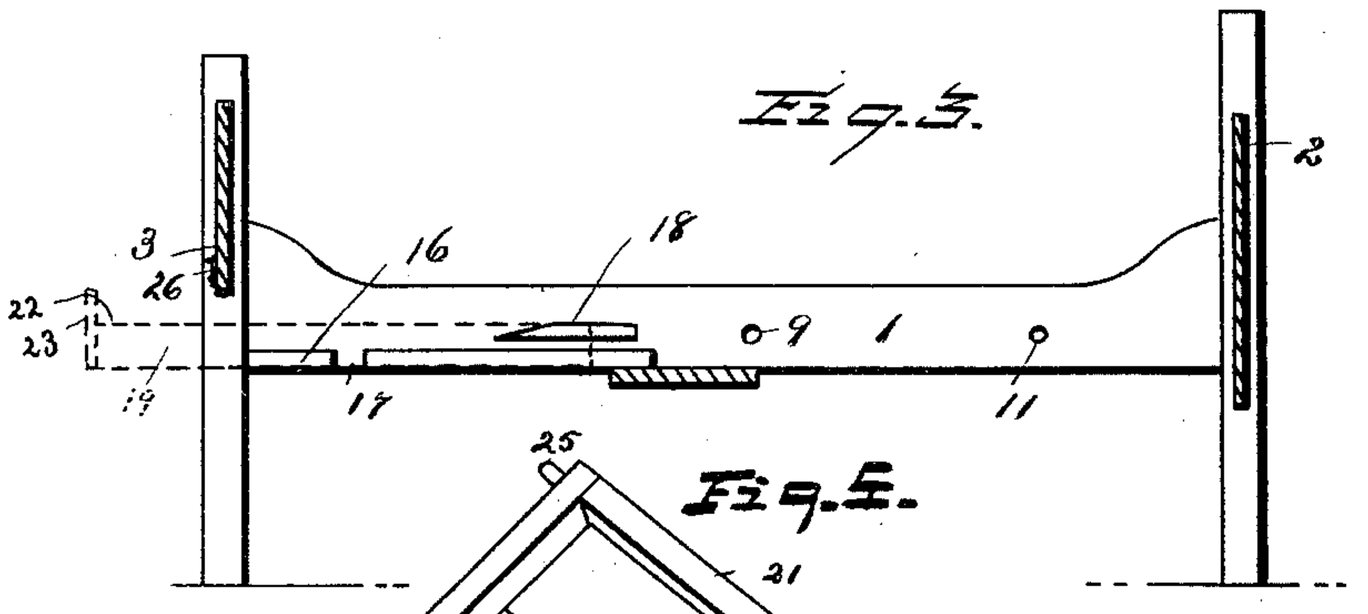
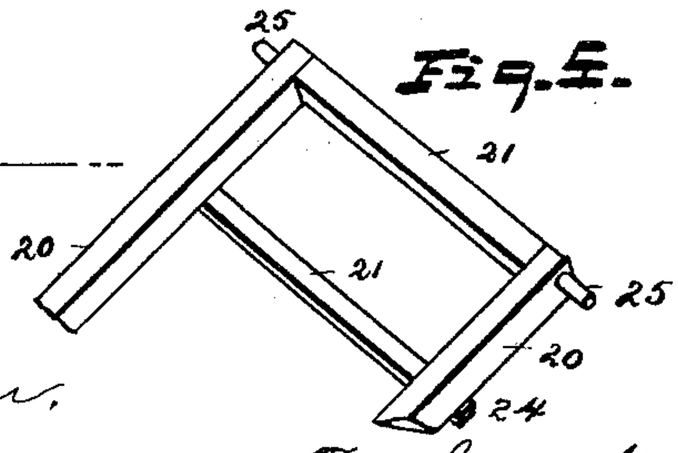


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

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INVALID-BEDSTEAD.

SPECIFICATION forming part of Letters Patent No. 415,211, dated November 19, 1889.

Application filed May 7, 1889. Serial No. 309,867. (No model.)

To all whom it may concern:

Be it known that I, LYMAN L. LOOMIS, a citizen of the United States, residing at Bainbridge, in the county of Chenango and State of New York, have invented a new and useful Invalid-Bedstead, of which the following is a specification.

This invention has relation to invalid-bedsteads, and among the objects in view are to provide a bed so constructed as to be adjustable to form a reclining-chair, and, in fact, to assume any position between a recumbent and sitting posture, and this without the necessity of disturbing the patient or removing him from the bed.

A further object of the invention is to construct a bed or bottom in sections, the foot portion of which is removable either wholly or partially, whereby the said portion may form the foot-rest of a chair or may be removed to provide for giving the patient foot-baths, vapor-baths, using a commode, &c., all as will be hereinafter apparent.

The invention consists in certain features of construction hereinafter specified, and particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a perspective of a bed constructed in accordance with my invention, the same being in the position for use as a chair. Fig. 2 is a side elevation, the bottom section being removed for the purpose of giving the patient baths. Fig. 3 is a detail of the inner face of one of the sides of the bed, illustrating the ways in which the foot-section is mounted. Fig. 4 is a perspective in detail of the foot-section.

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

1 represents the side of a bedstead, 2 the head-board, and 3 the foot-board, all of the usual construction.

At the center of the bedstead and extending from one side to the other, and at the lower edge thereof, is a transverse seat-section 4.

At about the center of the bedstead is located the head-section 5, which consists of the opposite bars 6, the top connecting-bar 7, and the lower connecting-bar 8, the side bars being pivoted at their lower ends, as at 9, within the side frame. The side frames are provided upon their outer edges with segmental racks 10, arranged opposite each other, and in rear of the same and journaled in the sides 1 of the bedstead is a transverse shaft 11, and mounted upon the same between the side frames and adapted to mesh with and operate the segmental racks are small cogs 12. The outer end of the shaft 11 is squared or shouldered, and to the same is applied an operating-crank 13, and pivoted to the side frame is a latch 14, having a notch 15, angular, and adapted to receive the squared or shouldered portion of the shaft 11, whereby said shaft may be rotated, and thus raise or lower the head-section 5, and be maintained in said adjusted position by means of the latch. Thus the head-section is made to serve as the back of a chair or as the upper portion of the bed-frame, as desired, and may be inclined at any angle whatever with relation to the bed. At the opposite inner surfaces of the two side frames 1 are formed longitudinal ways or grooves 16, having an intermediate recessed portion 17, the upper edge 18 of the way extending only a portion of the distance.

19 represents the foot-section, which is of about the same size as the head-section 5 and constitutes or occupies the remainder of the bed-frame. This foot-section consists of the two side bars 20, connected at their inner end by a tie-bar or cross-bar 21, at their outer ends by a similar bar 22, and provided with a foot-rest 23. Intermediate the bars 21 and 22 is a transverse bar 24, the ends of which project laterally beyond the bars 20, and when the frame 19 is raised, as for a bed, the ends of the bars 24 would be to one side of the recesses 17. Pins 25 project laterally from the inner ends of the side bars 20 and ride within the groove formed by the bar 16 and the short bar 18.

A latch 26 connects the foot-section 23 with the foot-board 3 of the bed-frame and maintains the same in a horizontal position.

It will be understood that each of the sections 5 and 19 is independently upholstered.

To bring the parts to a sitting position, the head-section is raised by means of a crank and the foot-section 3 released from the catch 26. The section 19 is then drawn to the rear until the projections from the ends of the bar 24 register with the recesses 17, formed in the

ways 16. That end of the section is then lowered to a plane below the sides 1, and it is further drawn out a desired distance and to expose the seat-board 4, and the lower end of the section rested upon the floor. A pillow or other cushion is now laid upon the seat 4, and the bed is thus transformed into a reclining-chair. To give foot-baths, &c., to the invalid, the operation is the same, with the exception that the section 19 is drawn out to the farthest extent, so as to bring its bearing-pins 25 opposite the recesses 17, and the section may thus be entirely removed. As shown by dotted lines, Fig. 3, the foot-section may be drawn out under the foot-board.

Having thus described my invention, what I claim is—

1. The bedstead having the central rigid seat 4 and the pivotal section 5 and the pivotal foot-section 19, the latter pivoted in ways 16, formed in the side rails of the bedstead and adapted to be slid longitudinally to form an extended incline, substantially as specified.

2. The bedstead having its side rails provided with opposite ways 16, having recesses 17, in combination with the foot-section 19, having bearing-pins 25, and the extended bar 24, to fit in the recesses 17, substantially as specified.

3. The bedstead with the transverse shaft 11 at the head, the locking-latch 14, and the intermediate gears 12, and the central seat portion 4, combined with the pivoted head-section 5, having segmental racks 10, meshing with the gears, and the removable foot-section 19, having pins 25, mounted in the ways 16, secured to the side rails of the bedstead, substantially as specified.

4. The combination, with the bedstead, the pivoted head-section, and means for elevating the head-section, of the sliding, swinging, and removable foot-section and opposite ways mounted in the bedstead for supporting said section, substantially as specified.

5. A bedstead having the central rigid seat 4, combined with the pivoted head-section having the elevating means, substantially as described, and the removable pivoted foot-section, both of said sections being arranged on opposite sides of the seat and adapted when closed to substantially align with each other, as set forth.

6. A bedstead having side rails, ways mounted thereon, and a pivoted foot-section mounted in the ways, whereby the foot-section may either be drawn out from beneath the foot-board or allowed to hang down in an inclined position or assume the ordinary horizontal position, as set forth.

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

LYMAN L. LOOMIS.

Witnesses:

ERASTUS A. WHITING,

J. M. ALBEE.