E. F. SLABINSKI.

HOSPITAL BED.

APPLICATION FILED DEC. 11, 1919.

1,373,151.

Patented Mar. 29, 1921.

2 SHEETS—SHEET 1.

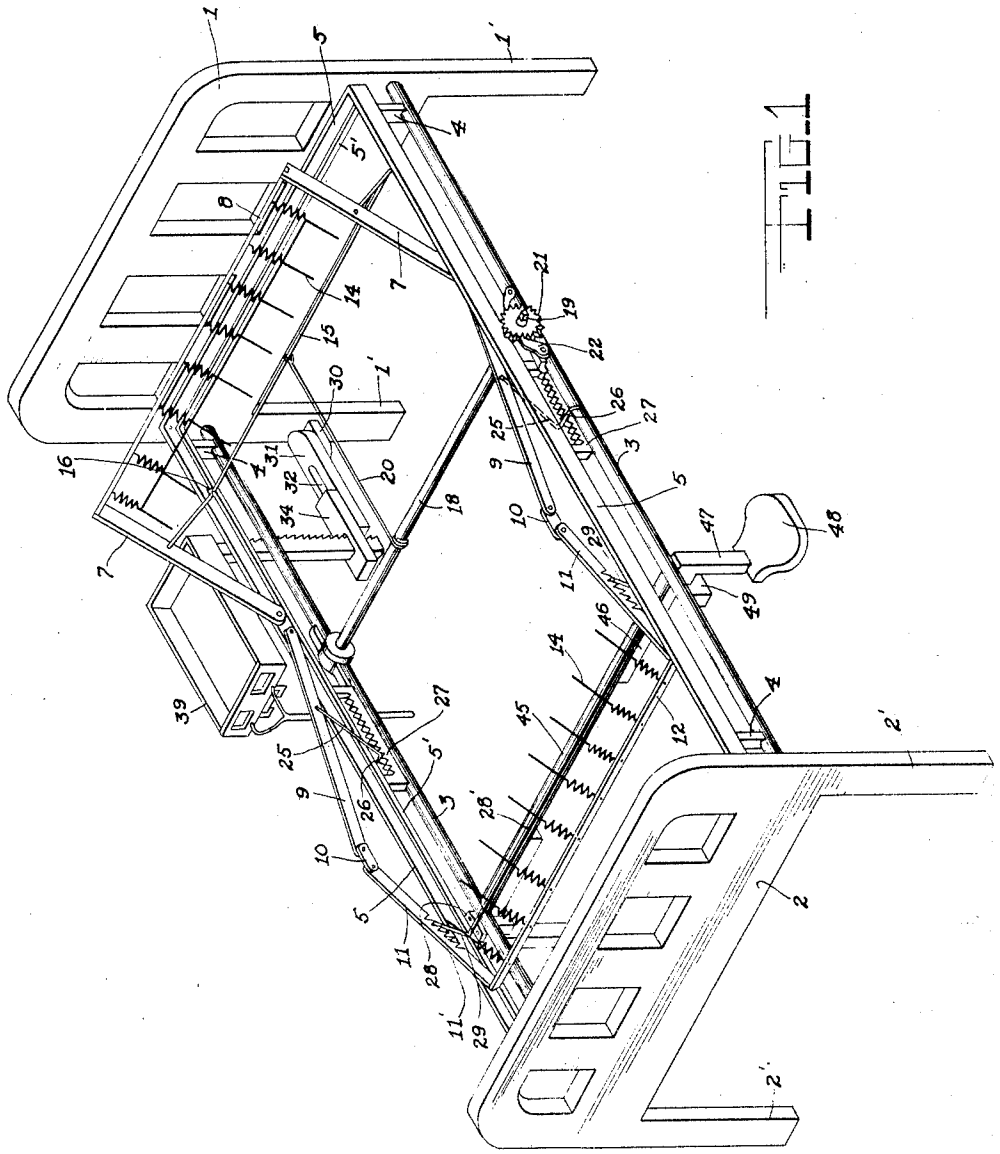


FIG. 1

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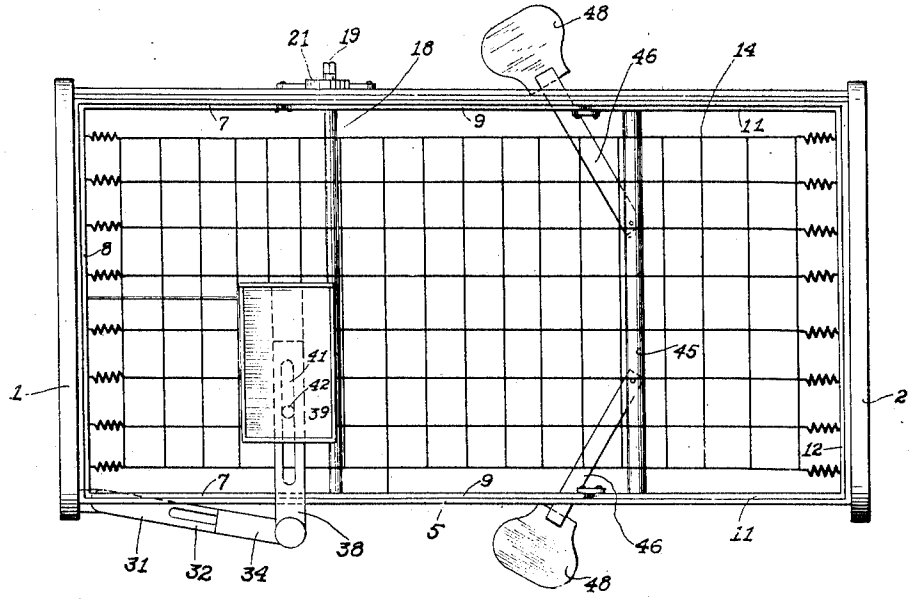
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2 SHEETS—SHEET 2.

FIG. 2



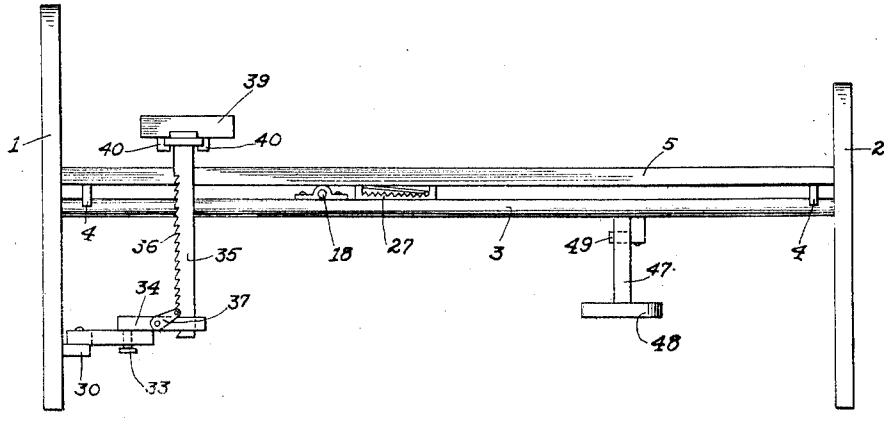


FIG. 3

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UNITED STATES PATENT OFFICE.

EDWARD F. SLABINSKI, OF LOCKPORT, NEW YORK.

HOSPITAL-BED.

1,373,151. Specification of Letters Patent. Patented Mar. 29, 1921.

Application filed December 11, 1919. Serial No. 344,045.

To all whom it may concern:

Be it known that I, EDWARD F. SLABINSKI, a citizen of Poland, residing at Lockport, county of Niagara, and State of New York, have invented certain new and useful Improvements in Hospital-Beds, of which the following is a specification.

This invention relates to beds, being intended more particularly for embodiment in hospital beds or beds for invalids.

The invention has for one object to provide a simple arrangement of parts whereby the bed surface may be adjusted to support the occupant with the greatest degree of comfort in different positions, whether sitting up or partially reclining.

A further object is to provide adjustable seats or chairs and an adjustable table in connection with the bed.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description, and accompanying drawings, and to the appended claim in which the various novel features of the invention are more particularly set forth.

Figure 1 of the drawings is a perspective view of a bed having the invention embodied therein.

Fig. 2 is a plan view thereof.

Fig. 3 is a side elevation thereof.

As here shown the frame of my improved bed comprises the head and foot transverse members, 1 and 2 respectively which are provided with the legs 1′ and 2′. These members are united by the horizontal side beams 3 which are here of circular cross section and fixed at their ends in the said members in any suitable manner. Mounted on the side beams 3, by means of feet 4, is a rectangular frame 5 which is spaced a short distance above the side beams, this frame carrying the bed springs which are arranged thereon in a novel manner, being carried by an adjustable auxiliary frame.

This auxiliary frame comprises a pair of side arms 7 pivoted to the side members of the frame 5 at a distance from the end members substantially equal to the length of the arms and having their free ends united by a cross-bar 8. A second pair of side arms 9 are pivoted to the side members of the frame adjacent the arms and extend toward the foot of the bed, the arms 9 terminating short of the foot of the bed and having short links 10 pivotally attached thereto, these links in turn having a third pair of arms 11 pivotally attached thereto, these arms having their free ends united by a cross-bar 12 at the foot of the bed. This auxiliary frame just described is supported by an inwardly projecting flange 5′ on the lower edge of the frame 5 within which the auxiliary frame fits snugly when in extended position. A bed spring of ordinary type, a portion of which is indicated at 14 is secured at opposite ends to the cross-bars 8 and 12 of the auxiliary frame.

Pivotally attached at its opposite ends to the arms 7 is a rigid bail-like rod 15 provided with projections 16 which rest on the flange 5′. Journaled at opposite ends in the side beams 3 is a transverse shaft 18 having a squared projecting end 19 adapted to receive a crank whereby the shaft may be rotated. Secured at one end to the bail-like rod 15 midway between opposite ends thereof is a rope 20 whose opposite ends is attached to, and adapted to wind upon, the shaft 18 when the latter is rotated in one direction, a ratchet wheel 21 being fixed on the end of the shaft 18 and engaged by a pawl 22 on the side beam 3 to prevent reverse rotation.

Pivoted to the arms 9 are rigid rods 25 which incline downwardly toward the foot of the bed and have lateral offsets 26 on their free ends which are adapted to engage the toothed bars 27 fixed to the underside of frame 5. Pivoted on the frame 5 as at 28 is a transverse rod 28′ having integral arms 29 adapted to engage in ratchet notches 11′ in the arms 11, these arms having lateral offsets similar to the offsets 26.

Projecting from one of the legs 1′ of the head frame member 1 is a lug 30 on which is pivotally mounted to swing horizontally an arm 31 this arm having a longitudinal slot 32 therein through which extends a pin 33 carried by an extension 34 slidably mounted on the arm. This extension is provided with a suitable aperture to slidably receive a vertical post 35 having ratchet teeth 36 on one side thereof, these teeth being engaged by a pawl 37 pivoted on the extension 34 whereby the post is supported. Pivoted on the upper end of this post 35 to swing horizontally is another arm 38 upon which is slidably supported a small table 39, the arm engaging in angular guides 40 on the bottom of the table and being longitudinally slotted as at 41 and the table having a pin 42 projecting

into the slot to prevent displacement of the table from the arm.

Extending rigidly between the side beams 3 a short distance from the foot of the bed is a cross-bar 45 having pivotally attached to the underside thereof, toward opposite ends, a pair of horizontally swinging arms 46 having their outer ends downwardly offset as at 47 and provided with seats 48. These arms may be either swung to a position with the seats 48 under the bed and out of the way or to a position extending parallel to the cross-bar 45 with the seats projecting laterally beyond the bed, the outer ends of the arms in this latter position projecting over rigid fingers 49 on the under sides of the side beams 3 whereby the arms, and the seats are solidly supported.

It is believed that the manner of use of the table and seats will be apparent from the above description. I will therefore now describe only the method of use and adjustment of the auxiliary spring carrying frame. As previously set forth all the members comprising this frame normally rest within the frame 5 and are supported by the flange 5′, in which position the arms 26 and the side arms of the rods 15 and 28′ extend at acute angles to the arms to which they are pivotally attached.

By rotating shaft in a direction to wind the rope 20 thereon the rod is pulled toward shaft, causing the arms of rod 15 to assume a more nearly upright position, thus supporting the head portion of the bed in a more or less upright position. Similarly the arms 9 and 11 may be adjusted to different angular positions and held therein by the supporting arms 26 and 29 to enable the legs of the occupant to rest with the knees somewhat bent.

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

In a bed of the character described in combination with the side beams of said bed, a rectangular frame provided with feet resting on said beams, a transverse shaft connecting said beams intermediate their ends, a pair of connected side arms pivoted to said frame, a second pair of side arms also pivoted to said frame, a third pair of arms, links pivotally connecting said second and third pair of arms, toothed bars secured to the underside of said frame and rods secured to the second pair of arms having lateral offsets to engage the teeth of said bars, a bail-like rod secured with its rectangularly and upwardly bent ends to the first pair of side arms, a rope connecting said rod with said transverse shaft in approximately their center and means secured to said transverse shaft for rotating the same and raising and lowering said first pair of said arms.

In testimony whereof I have affixed my signature.

EDWARD F. SLABINSKI.