

J. G. LAYCOCK.
ATTACHMENT FOR BEDS.
APPLICATION FILED FEB. 8, 1912

1,045,571.

Patented Nov. 26, 1912.

2 SHEETS—SHEET 1.

FIG. 1.

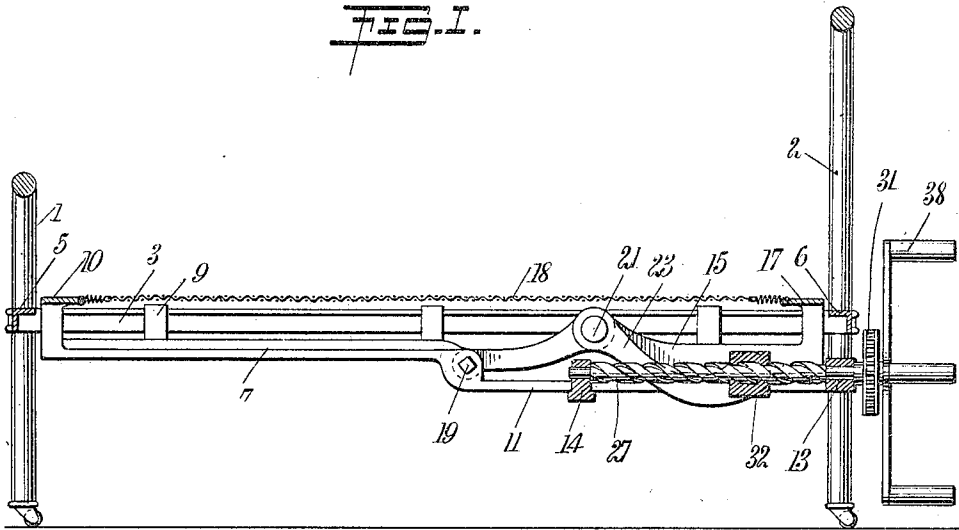
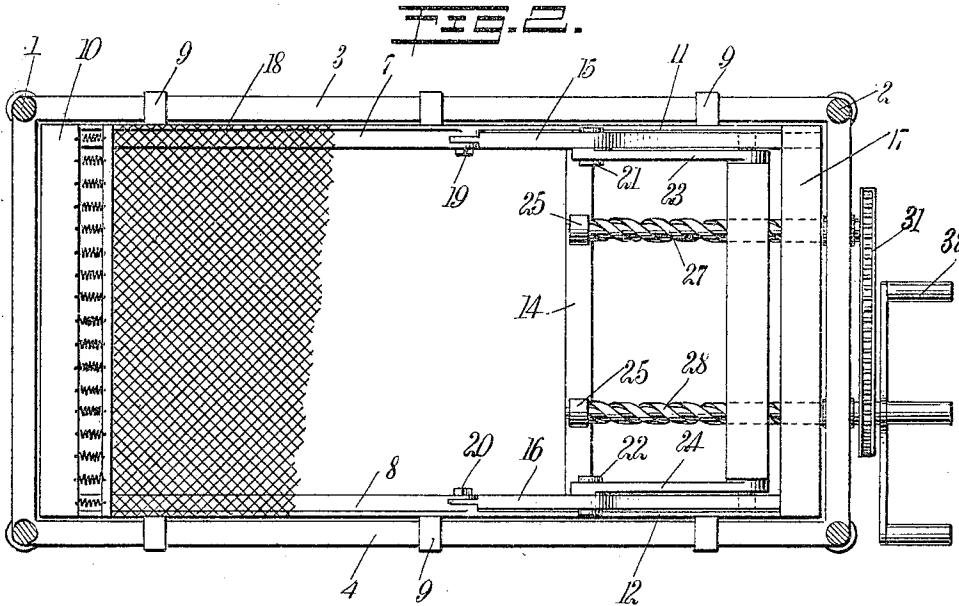


FIG. 2.



WITNESSES
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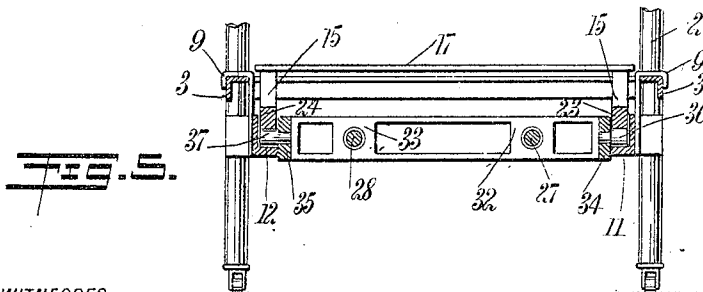
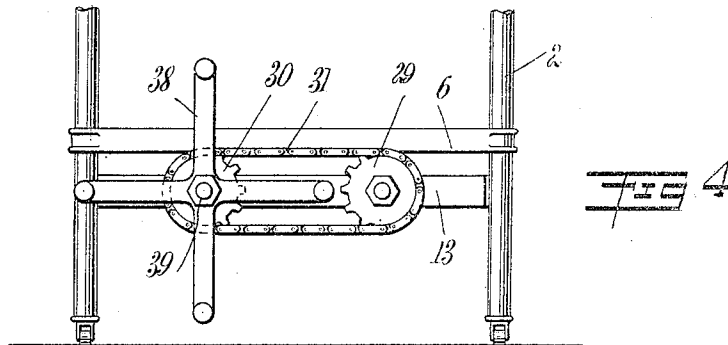
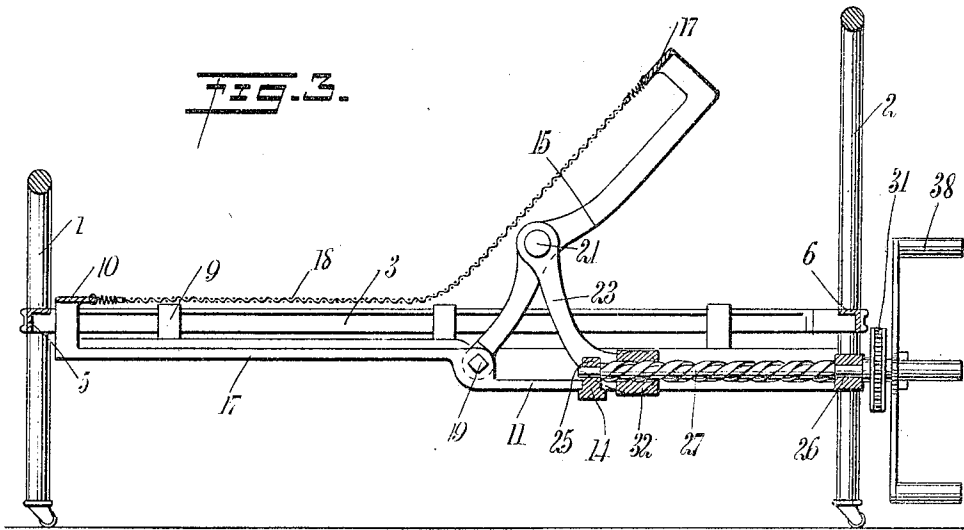
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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

JOHN GILBERT LAYCOCK, OF RUSSELLVILLE, OHIO.

ATTACHMENT FOR BEDS.

1,045,571.

Specification of Letters Patent.

Patented Nov. 26, 1912.

Application filed February 8, 1912. Serial No. 876,222.

To all whom it may concern:

Be it known that I, JOHN G. LAYCOCK, a citizen of the United States, and a resident of Russellville, in the county of Brown and State of Ohio, have invented a new and Improved Attachment for Beds, of which the following is a full, clear, and exact description.

My invention relates generally to attachments for beds and more particularly it is directed to an improved construction especially adapted for use in hospitals or for the use of invalids generally whereby such persons may assume a sitting posture when so desired.

The principal object of my invention is to provide a new and improved attachment for beds consisting of the construction and arrangement of parts therein set forth whereby portions of the spring and mattress may be moved relatively to the frame of the bed, thereby permitting an invalid to be placed in a sitting posture with little trouble to the attendant and with no inconvenience to the invalid.

Other objects and advantages of the invention will appear as the description thereof proceeds, all of which is particularly pointed out and included in the appended claims.

Reference is to be had to the accompanying drawings forming a part of this specification in which similar characters of reference denote corresponding parts in all the views, and in which—

Figure 1 is a vertical sectional view showing the actuating means; Fig. 2 is a top plan view of the bed with the attachment in position thereon; Fig. 3 is a view similar to Fig. 1 showing the portions of the attachment in moved position; Fig. 4 is an end view of the bed; Fig. 5 is a vertical sectional view showing the transversely extending slidable member with the method of attachment of the parts thereto.

The device or attachment herein shown and described is adapted for use with beds of any size or construction, the device itself being capable of modification in various details in order to adapt it to different beds, the bed herein shown embodying the foot board 1 and the head board 2 with the longitudinally extending sides 3, 4, the head

and foot board being also provided, if so desired, with transversely extending members 5, 6.

The attachment itself comprises a frame preferably rectangular and embodying the longitudinally extending side pieces 7, 8, each of which is provided with suitable suspending devices, such as hooks 9, for engagement with the sides 3, 4, whereby the attachment may be held in position, one end of each of the sides being connected by a transversely extending member 10.

Referring particularly to Figs. 1 and 3 it will be noted that each of the side pieces 7, 8, have offset ends adjacent the head board, the offset portions 11, 12, being connected by a cross piece 13. Extending transversely of the offset ends 11, 12, and preferably on the under side thereof is a cross piece 14 provided with suitable means for supporting the actuating means to be later described.

Pivotally supported on top of the side pieces 7, 8, is a frame, preferably rectangular in cross section and made up of the sides 15, 16, the ends of which are connected by a cross piece 17, the length of the sides 15, 16, being substantially equal to the length of the offset portions 11, 12 of the first-mentioned side pieces 7, 8. By such construction the side pieces of this frame are permitted to lie in the same horizontal plane as the portions of the side pieces 7, 8, beyond the offset portions thereof, thereby providing for maintaining the spring 18 and the mattress resting thereon in a horizontal plane.

Referring particularly to Figs. 1 and 3, it will be noted that the inner end of each of the side pieces 15, 16, is pivotally supported at 19, 20, to the side pieces 7, 8, whereby movement of this frame relatively thereto is permitted, the intermediate portion of each of the side pieces 15, 16, being provided with an offset pin 21, 22, there being links 23, 24 in pivotal engagement with the said pins; extending longitudinally of the frame and mounted in suitable bearings 25 on the cross piece 14 and in bearings 26 of the cross piece 13 are the worms 27, 28, one end of each of which is provided with a suitable gear 29, 30, suitably connected together by a chain 31, the before-mentioned links 23, 24, being secured to blocks 32, 33,

provided with suitable openings in which the said worms 27, 28, engage.

As shown particularly in Fig. 5, the blocks 32, 33 may be part of an integral frame or may be suitably connected together by end portions 34, 35, the end portions having bearing pins 36, 37, extending laterally thereof and in sliding engagement with the offset portions 11, 12, of the sides 7, 8, previously described. The outer end of one of the worms 28 is preferably provided with a suitable handle 38 fixed in position by any means, such as a lock nut 39, movement of the handle turning the worms simultaneously through the medium of the before-mentioned gears 29, 30, and the connecting chain 31.

Referring particularly to Figs 1 and 2, the attachment is shown positioned on a bed, the relation of the parts being such that the spring is maintained in a horizontal plane whereby the bed is in normal position for use; when a patient or invalid occupying the bed desires to assume a sitting posture, the handle 38 may be turned whereby the worms 27, 28, will be rotated and the blocks 32, 33, moved along the worms, the links 23, 24, being thereby moved into the position shown in Fig. 3 with the portion of the spring adjacent the head board elevated, the parts being maintained in such position, due to the pitch of the threads on the worm whereby return movement is prevented. It is clear that the mattress with the patient thereon, resting on top of the spring 18, may assume suitable, desirable positions whereby the care and treatment of the patient is facilitated, the change to different positions being obtained by merely turning the handle.

The particular material of which the attachment is made is, of course, largely a matter of choice and certain facts, such as the finish and material of the bed with which the attachment is to be used, will be considered in the construction of the attachments, such changes being included within the spirit of the appended claims.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent:—

1. An attachment for beds comprising a frame, means on the frame whereby it may be positioned on the bed, the sides of the said frame adjacent one end being offset, a pivoted frame on the first frame and adjacent the said offset end, links movably carried by the sides of the second frame, together with means carried by the first frame and engaging the said links whereby the second frame may be moved into different positions.

2. An attachment for beds comprising a frame having means thereon whereby it may be secured in position on a bed, the sides of

the said frame adjacent one end being offset, a second frame pivotally carried by the first frame, the said second frame being positioned adjacent the said offset ends, a spring extending between the end of the first frame and the end of the said second frame, links in pivotal engagement with the second frame, together with a plurality of means carried by the first frame and in engagement with the said links for moving the same whereby the second frame may be moved into different positions with respect to the first one, the said spring being also moved.

3. An attachment for beds comprising a frame having means thereon whereby it may be positioned on a bed, one end of each of the sides of the said frame being offset, a second frame pivotally mounted on the first frame adjacent the said offset ends thereof, a spring extending between the end of the first frame and the end of the said second frame, links in pivotal engagement with the sides of the second frame, cross pieces carried by the first frame, a plurality of worms movably mounted in the cross pieces, the said worms being in engagement with the said links whereby, when the worms are turned, the links will be moved, the second frame together with the spring being thereby elevated into different positions.

4. An attachment for beds comprising a frame, one end of each side of the frame being offset, a second frame movably carried by the first frame adjacent the said offset portions, a spring between the end of the first frame and the end of the second frame, links movably connected with the sides of the second frame, cross pieces carried by the first frame, worm gears carried by the cross pieces, the worm gears being in engagement with the ends of the said links, together with means connecting the worms whereby movement of one will also turn the other, the links being thereby moved and the second frame and the portion of the spring adjacent thereto being brought into different positions.

5. An attachment for beds comprising a frame, one end of each side of the frame being offset, a second frame, the sides of the second frame being in pivotal engagement with the first frame adjacent the offset sides, a spring extending between one end of the first frame and the end of the second frame adjacent the said offset ends, links in pivotal engagement with the sides of the second frame, a plurality of cross pieces carried by the first frame adjacent the offset ends thereof, a plurality of worms mounted in the said cross pieces, a block carried by each link, each block being provided with an opening having threads therein engaging one of the said worms, a gear at the outer end of each worm, means on one of the worms whereby

it may be turned, together with a chain engaging the gears whereby turning of the worms will move the blocks therealong, thereby raising the second frame and with
5 it the portion of the spring adjacent thereto whereby the second frame may be moved into and retained in different positions.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN GILBERT LAYCOCK.

Witnesses:

FRANK P. REED,

C. V. LAYCOCK.