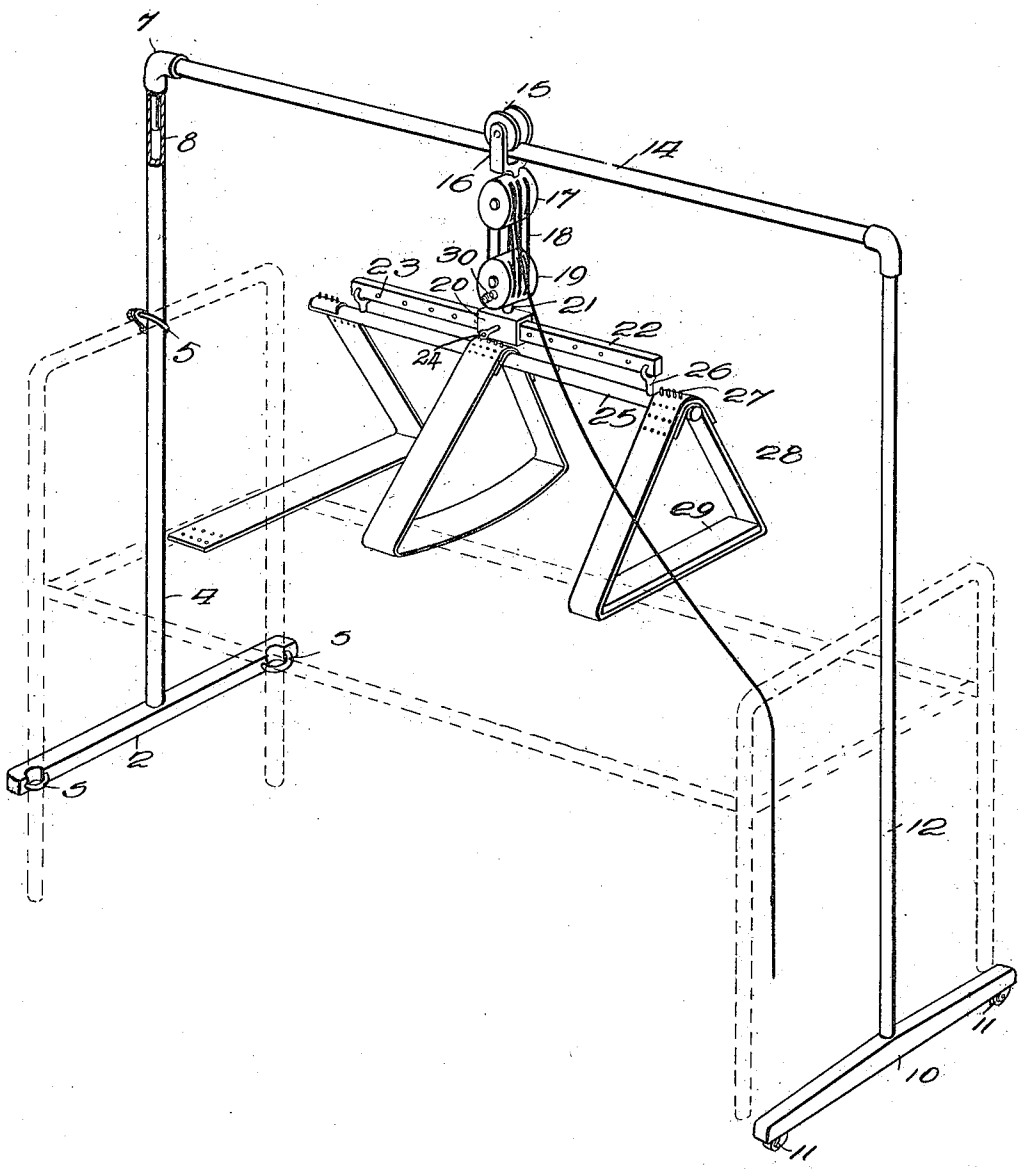
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BED ATTACHMENT.

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1,318,429. Patented Oct. 14, 1919.



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BED ATTACHMENT.

1,318,429. Specification of Letters Patent. Patented Oct. 14, 1919.

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To all whom it may concern:

Be it known that I, WILLIAM H. YOUNG, a citizen of the United States, residing at Denver, in the county of Denver and State of Colorado, have invented certain new and useful Improvements in Bed Attachments, of which the following is a specification.

This invention relates to an improved bed attachment and has for its primary object to provide a means whereby a patient may be easily and quietly raised, lowered, or held suspended as the case may require or removed from the bed to any desired position.

Another important object of the invention is to provide such a bed attachment whereby a patient may be easily raised and then shifted to the head or foot of the bed, or shifted in either of the directions when swung from the bed.

Still another object of the invention is to provide a means for shifting or moving a patient, as above stated, which can be readily operated by one person in an easy and expeditious manner.

Other general objects of the invention are to provide such a bed attachment for the purposes above mentioned which is strong, simple and artistic in design, and which may be quickly and noiselessly attached and operated.

With the above and other objects in view the invention consists in the novel features of construction, combinations and arrangement of the parts that I shall hereinafter more fully describe and claim.

For a full understanding of the invention, reference is to be had to the accompanying drawing, in which:

The figure of the drawing is a perspective view showing the attachment applied to a bed.

Referring to the drawings in detail, 2 designates a bar, preferably of wood, to the center of which the lower end of a standard 4 is detachably connected in any preferred manner. While I have here illustrated the standard in form of a pipe, it is to be understood that the invention is not to be so limited. The clips 5 clamp the ends of the bar to the side posts at the head of the bed and a similar clip likewise clamps the standard 4 to the horizontal bar of said head centrally thereof. The elbow 7 has screwed into its one end the short pipe or rod 8. This short pipe or rod loosely engages for turning movement in the upper end of the standard 4.

The bar 10, preferably of wood, is provided with the supporting casters 11 at its opposite ends, a second standard 12 is likewise detachably secured at its lower end centrally to this bar. At its upper end the standard is connected by means of an elbow to one end of the horizontal pipe or rod 14, the other end of which has threaded connection with elbow 7.

A grooved roller 15 is engaged upon the upper ridge of the rod or pipe 14 to travel longitudinally thereof, and to the axis of this roller the arms of a yoke 16 are loosely connected. From this yoke a plurality of sheaves or pulleys indicated at 17 are suspended around which the rope 18 is engaged, said rope likewise being operatively engaged with a series of sheaves or pulleys 19 below and in spaced relation with the sheaves 17. From the sheaves 19, a rectangular metal sleeve 20 is suspended by means of a swivel indicated at 21. Through this sleeve a metal bar 22 is longitudinally shiftable. The bar 22 is provided with a longitudinally extended series of spaced openings 23 and the sleeve 20 with openings in its side walls with which any one of the openings in said bar may be registered to receive a removable pin 24.

A cylindrical bar 25, preferably of wood, is provided adjacent its opposite ends with the hooks 26 which are adapted to be engaged through openings on the end of the bar 22. At spaced points a plurality of metal teeth or spurs 27 project upwardly from the upper side of the bar 25. These spurs are adapted to detachably hold the terminals of the body sustaining belts or straps 28 in connection with the bar 25. To the medial parts of one of these straps, a board indicated at 29 of wood or other relatively stiff material is suitably secured. This board is adapted to be arranged under the knees of the patient.

To the side of the block of sheaves of pulleys 19 a clamping device 30 is attached and is adapted for clamping engagement upon the rope 18 whereby the body sustaining cradle or harness may be retained at a desired elevation.

In the practical use of the apparatus, after first securely clamping the bar 2 and standard 4 to the head of the bed and then

swinging the rudder pipe 14 and standard 12 so as to position the latter contiguous to the foot of the bed, one end of each strap 28 is disconnected from the bar 25. I have herein shown three of these straps though it will be understood if desired a greater number may be provided. As illustrated one strap is adapted to be passed under the shoulders of the patient, another around the body at the waist, and the third under the legs, the board 29 extending under the knees as above stated. The free ends of the straps are then engaged with the respective series of spurs 27 and thus securely attached to the bar 25. This application of the strap may be very easily and quickly accomplished by a single nurse or attendant who then shifts the sleeve 20 along the bar 22 and pulls the cord 18 to slightly raise or elevate the patient. This adjustment of the sleeve is repeated until a proper and even balance is obtained when the pin 24 is inserted through coinciding openings in said sleeve and the bar 22. The cord 18 is now again pulled to elevate the patient and the cord securely clamped by the means of the clamping device 30. The rudder pipe 14 and standard 12 can now be swung in a complete circle with respect to the attached standard 4, the rod 8 turning freely in the upper end of the latter standard. The patient may in this manner be disposed in a position quite remote from the bed so that the bed clothing can be changed. While in such a position, the patient may be lowered into a bath tub, or disposed in a reclining or sitting position, after which the fastening straps 28 may be removed. The patient can thus be quickly handled and elevated and removed from the bed to a desired position without suffering the slightest discomfort.

From the foregoing description taken into consideration with the accompanying drawings, the construction, manner of operation and several advantages may be readily understood. The apparatus is attractive in its entirety, is very light in weight, and is therefore admirably adapted for use in hospitals, sanatoriums, and like institutions, since it can be readily moved from one bed to another and applied to or detached from the beds with great facility and a minimum of manual exertion. However, it is to be understood that as my attachment is exceedingly simple and can therefore be produced at relatively small manufacturing cost, it is also well designed for individual domestic use.

What I claim and desire to secure by Letters Patent is:

An invalid lifting attachment for beds comprising elevating means, a swivel sleeve connected to the elevating means, a bar shiftable through the sleeve, a longitudinally disposed member suspended from the ends of said bar, body engaging flexible elements permanently attached at one of their ends to said member, means for detachably fastening said elements at their other ends to said member, and means for securing the said bar in its adjusted position relative to the sleeve to properly balance the body of the patient when elevated.

In testimony whereof I affix my signature hereto.

WILLIAM H. YOUNG.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents. Washington, D. C."