

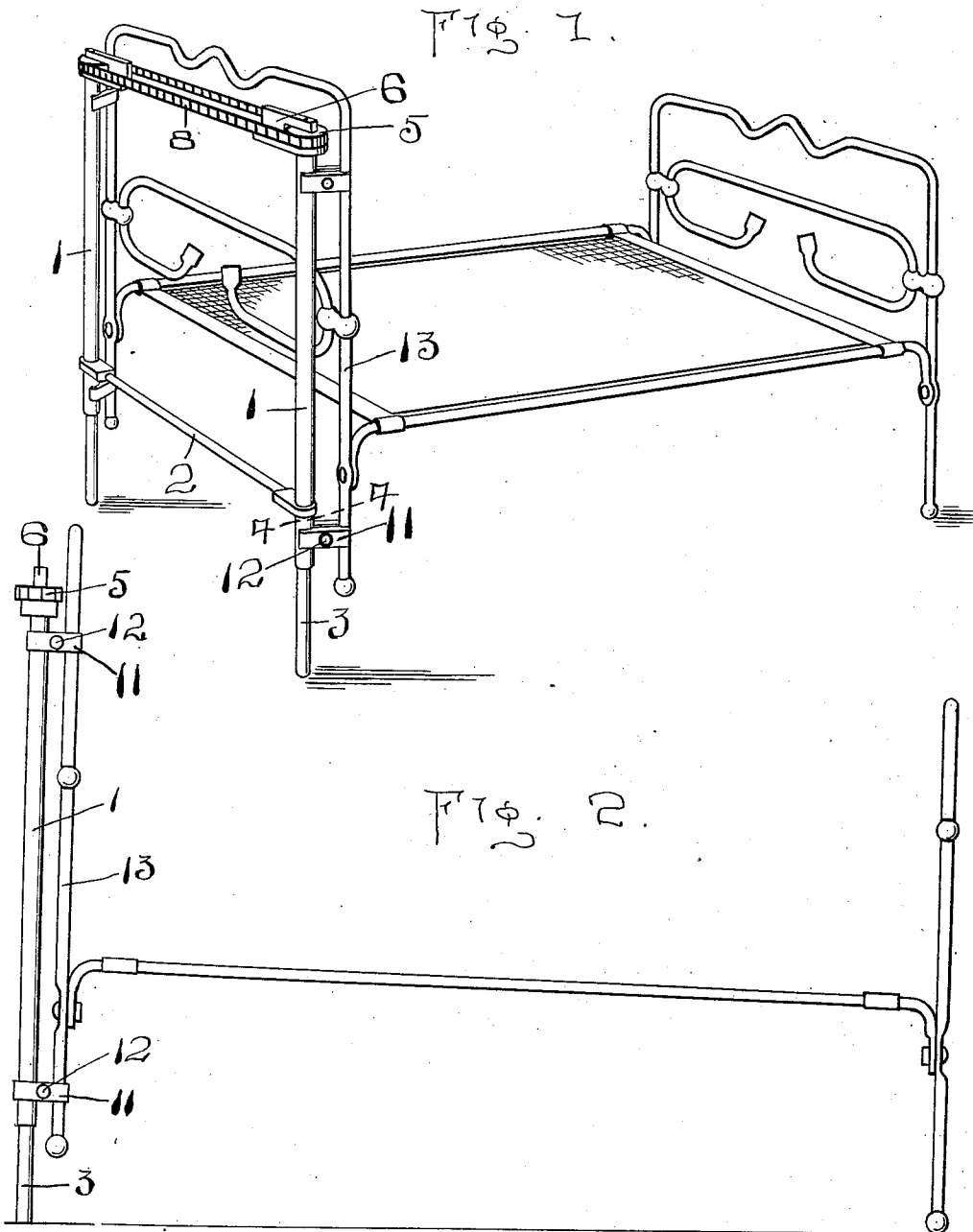
J. S. VISGER & C. CLAUS.
BED LIFTER.

APPLICATION FILED AUG. 7, 1911.

Patented Feb. 13, 1912.

2 SHEETS—SHEET 1.

1,017,484.



WITNESSES:

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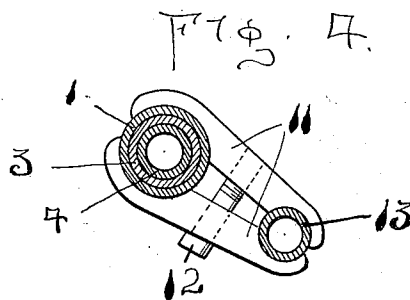
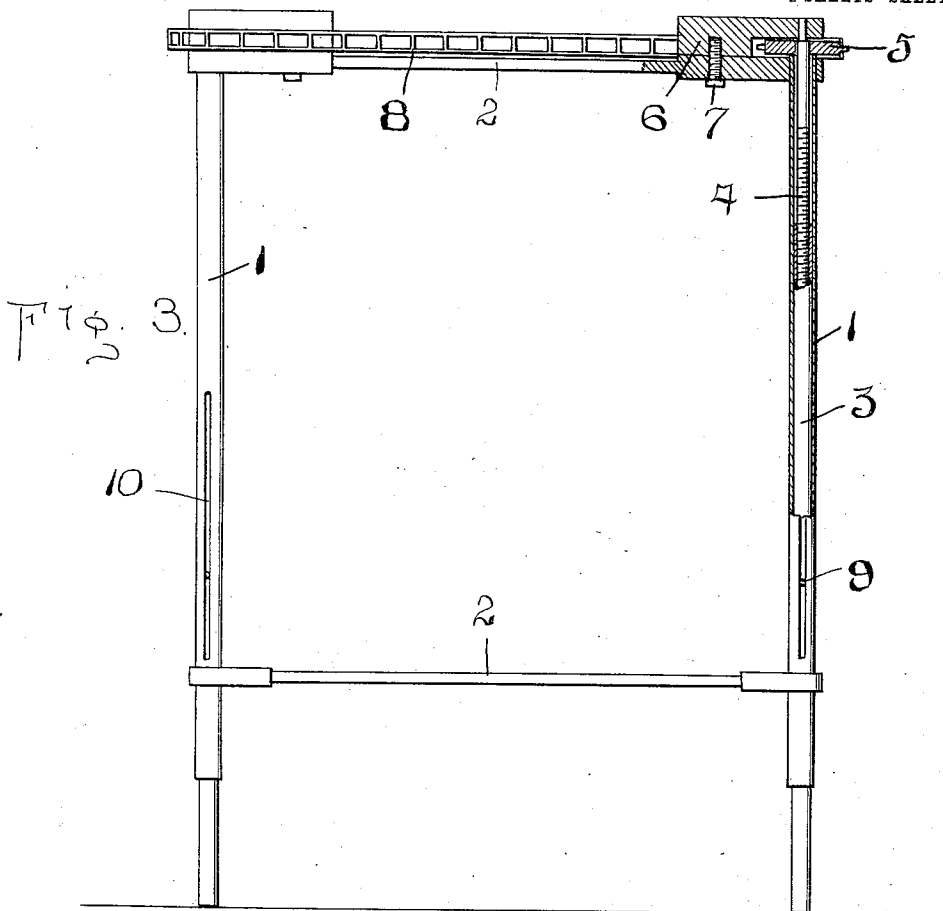
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UNITED STATES PATENT OFFICE.

JOSEPH S. VISGER AND CHRISTIAN CLAUS, OF BROOKLYN, NEW YORK.

BED-LIFTER.

1,017,484.

Specification of Letters Patent.

Patented Feb. 13, 1912.

Application filed August 7, 1911. Serial No. 642,737.

To all whom it may concern:

Be it known that we, JOSEPH S. VISGER and CHRISTIAN CLAUS, citizens of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Bed-Lifters; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in bed lifters, and more particularly to means for lifting either end of a bed to place the same in a position higher than the opposite end.

An object of the invention is to provide mechanism which may be used at either the head or the foot of a bed and manipulated to raise that end of the bedstead.

Another object is to provide a lifter of this character which may be readily attached to, or disconnected from the bedstead, and a further object is to provide a device of this character which may be readily and easily operated to adjust the height of the end of the bedstead in relation to the opposite end.

Other objects and advantages will be apparent from the following description taken in connection with the accompanying drawings, and it will be understood that changes may be made in the specific structure shown and described without departing from the spirit of the invention.

Figure 1 is a perspective view of the bedstead showing the lifter attached to the head thereof, said head being slightly raised. Fig. 2 is a side view thereof, Fig. 3 is an elevational view of the lifter detached from the bed, and Fig. 4 is a cross sectional view on the line 4—4 of Fig. 1.

In the drawings 1 represents the hollow posts which are connected by the horizontal brace bar 2 connected near the opposite ends of said hollow posts and working slidably within the hollow posts 1 are the smaller pipes or hollow posts 3 which are internally threaded to receive the threaded rods 4, the upper ends of which have secured thereon the sprocket wheels 5. The upper extremities of the rods 4 are reduced and mounted in the blocks 6 which latter are secured to the upper horizontal brace bar 2 by means of screws 7 or other suitable means passed through said brace bar and into the blocks 6.

At the points at which the blocks 6 are secured upon the upper horizontal brace bar 2 the latter is enlarged and flattened, as shown at 2', to form suitable seats upon which the blocks may rest, thus preventing loose play at these points of connection. It will be understood that the blocks 6 are suitably cut away to accommodate the sprocket wheels 5. Working over the sprocket wheels 5 is a suitable chain 8 which may be readily moved in either direction to raise or lower the pipes 3 within the hollow posts 1 by rotating the rods 4. The pipes 3 are prevented from rotating by means of the pins 9 carried thereby and projecting through suitable guide slots 10 arranged longitudinally within the hollow posts 1, the guide slots 10 limiting the vertical movement of the pipes 3 in either direction.

The lifter is secured either to the head or foot of a bed by means of the clamp arms 11 which are arranged in pairs, each pair of arms being drawn together by a clamping screw 12 working in threaded openings through the central portions thereof, the large ends of the arms partly surrounding and tightly gripping the hollow posts 1, while the small ends thereof are engaged partly around the posts of the end of the bed. It will thus be seen that as the sprocket chain 8 is moved in one direction the sprocket wheels 5 will be rotated to revolve the screw threaded rods 4 and thus cause the hollow pipes 1 to move upwardly upon the posts 3, raising the adjacent end of the bed higher than the opposite end thereof. To lower this end of the bed, the chain 8 is moved in the opposite direction. Thus it will be seen that this device may be attached to either end of a bed, and manipulated to readily adjust the height of the end to which it is connected in respect to the opposite end of the bed, making it possible to tilt the bed as desired.

It will be evident that this lifting appliance may be applied to practically any type of bedstead, and will effectively perform its duties and will raise the end of the bed gradually without causing any jar whatever. This is especially desirable in hospitals where it is often necessary or desirable to place the head or feet of the patient in an elevated position. It will also be apparent that this bed lifter may be cheaply manufactured owing to the comparatively small number of parts of simple formation.

What we claim is:

1. A bed lifter comprising hollow posts, means for connecting the posts, means for securing the posts to the bed, internally threaded pipes within and extending through the lower ends of said posts, and means for moving the posts longitudinally upon the pipes to vary the height of the bed.
2. A bed lifter comprising connected hollow posts, pipes within the hollowed posts, said posts being adapted to be moved vertically upon the pipes, means for securing the connected hollow posts to the end of the bed, means for moving the posts vertically to raise or lower the end of the bed, and means for limiting the vertical movement of said posts in either direction.
3. A bed lifter comprising a framework

including hollow posts, pipes within the posts and projecting through the lower end thereof, rods projecting through the upper ends of the posts and extending into the pipes within said posts, connections between the upper ends of the rods to rotate the same and move the posts upon the pipes to vary the height of the lifter, means for limiting the movement of said posts and means for securing the framework to a bed.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

JOSEPH S. VISGER.
CHRISTIAN CLAUS.

Witnesses:

E. T. NEWMAN,
L. L. YFARSLEY.

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