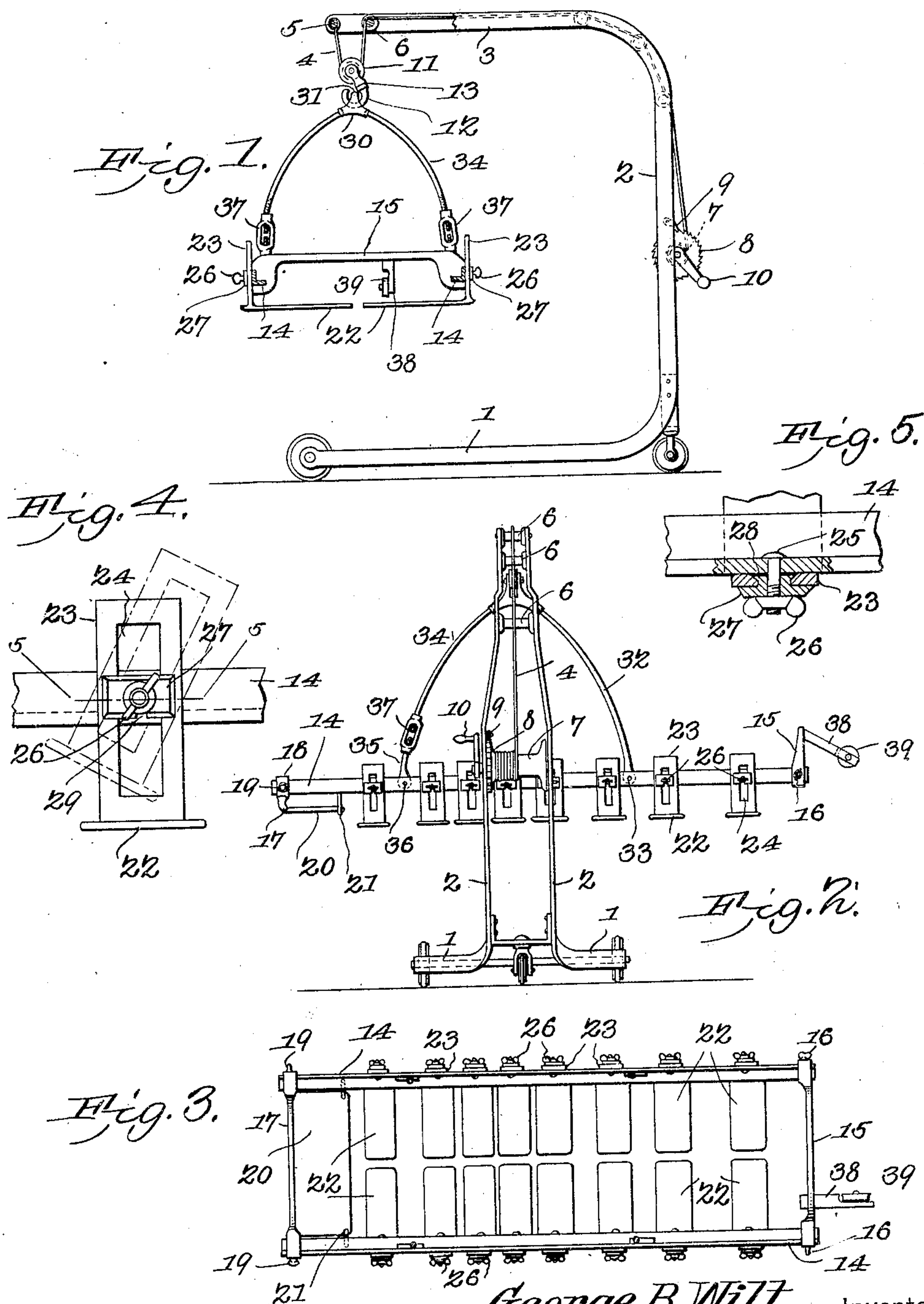


No. 832,517.

PATENTED OCT. 2, 1906.

G. B. WILT.
DEVICE FOR LIFTING INVALIDS.

APPLICATION FILED OCT. 4, 1905.



Witnesses

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UNITED STATES PATENT OFFICE.

GEORGE B. WILT, OF MARION, INDIANA.

DEVICE FOR LIFTING INVALIDS.

No. 832,517.

Specification of Letters Patent.

Patented Oct. 2, 1906.

Application filed October 4, 1905. Serial No. 281,341.

To all whom it may concern:

Be it known that I, GEORGE B. WILT, a citizen of the United States, residing at Marion, in the county of Grant and State of Indiana, have invented a new and useful Device for Lifting Invalids, of which the following is a specification.

This invention relates to devices for lifting invalids and the like, and has for its object to provide certain new and useful improvements to facilitate the handling of the device and to equip the device with a novel form of carrier arranged to be conveniently adjusted, so as to accommodate the same to any sore or injured portions of the body of the patient. In this connection it is proposed to have the bottom of the carrier made up of sections which are individually adjustable for convenience in thrusting the same between the mattress and the different portions of the body of the patient without in any manner disturbing the latter.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is an end elevation of an invalid-lifting device embodying the features of the present invention. Fig. 2 is a side elevation thereof. Fig. 3 is a plan view of the carrier. Fig. 4 is an enlarged fragmentary view of one of the adjustable carrier-sections. Fig. 5 is a sectional view on the line 5 5 of Fig. 4.

Like characters of reference designate corresponding parts in each and every figure of the drawings.

The present device includes a wheeled truck 1, having a standard rising from one end thereof and including substantially parallel standard members 2, which have their upper end portions arched over the truck or base to form an arm 3. A cable 4 has one end fixed to the outer end of the arm 3, as shown at 5, from which it depends in the form of a bight and then passes rearwardly and downwardly across antifriction-rollers 6, journaled between the arm and standard members. A windlass 7 is journaled between the standard members and has the free end of the cable wound thereon. One end of the windlass is provided with a ratchet-disk 8, and there is a pawl 9 mounted upon the standard and engaging the

ratchet. A suitable crank-handle 10 is employed for rotating the windlass. A grooved pulley 11 is hung in the bight portion 4 of the cable and carries a depending hook 12, which includes a swivel 13 to permit of the bill of the hook turning in a substantially horizontal direction without twisting the pulley 11 in the bight of the cable.

The carrier for the support of the invalid includes parallel side rails 14, preferably in the nature of angle-bars, which are connected at one end by an arched cross-bar 15, having enlarged terminals provided with substantially L-shaped openings receiving the side rails, there being suitable set-screws 16, piercing the ends of the cross-bar and engaging the side rails to rigidly connect said members. At the opposite end of the carrier there is a cross-bar 17, having upturned terminals 18, loosely pierced by the side rails 14 and having set-screws 19 to rigidly connect the rails and the cross-bars. A head-rest 20 is carried by the cross-bar 17 and has its inner end portions resting upon suitable brackets or hangers 21, depending from the rails 14. The bottom of the carrier is made up of two series of bottom sections 22, one series being carried by each of the side rails 14 and extending substantially half-way across the width of the carrier. Each bottom section is provided at its outer end with an upstanding hanger 23, rising across the outer side of the adjacent rail and provided with a longitudinal slot 24, which is dovetailed in cross-section, as best indicated in Fig. 5 of the drawings. A bolt or threaded pin 25 is carried by the rail 14 and projects through the slot 24. Upon the outer end of this threaded pin is a winged nut 26, and interposed between the nut and the hanger 23 is a washer 27, having a dovetailed boss 28, slidably engaging the slot 24. The lower edge of the washer is intersected by an upright slot 29, which leads to the bolt-opening which passes centrally through the washer and boss thereof, whereby the washer may be conveniently applied and removed. By loosening the nut 26 the bottom section may be raised and lowered and also tilted upon the bolt 25, as an axis, as indicated by dotted lines in Fig. 4.

It is designed to suspend the carrier from the hook 12, which is accomplished by means of a hanger including a head 30, having a link or eye 31, detachably engaged by the hook 12. An arched hanger-arm 32 extends between the head 25 and each of the rails 14 at

a point adjacent the foot thereof, where it is pivotally connected, as at 33. Another hanger element extends between the head and the opposite end portion of the same rail and includes an upper arched rod member 34, a lower link 35, pivotally connected to the rail, as at 36, there being a turnbuckle 37 connecting the adjacent ends of the members 34 and 35. By adjustment of the turnbuckles 37 the head end of the carrier may be raised and lowered upon the pivotal supports 33 between the side rails and the hanger members 32.

In practice the several bottom members are removed and the truck or wheeled base is run beneath the bedstead with the carrier elevated above the body of the patient. The carrier is then lowered by means of the windlass, so as to bring the side rails at opposite sides of the patient, and then the bottom sections 22 are individually thrust between the body of the patient and the mattress of the bed and then secured to the side rails in the desired position. Whenever it is desired to expose any sore or injured portion of the body, the adjacent bottom sections may be omitted so as to give convenient access to such portions of the body as may require treatment, and the sections may be raised and lowered, so as to fit all portions of the body.

A bracket 38 is carried by the cross-bar 15 and has a grooved roller 39, over which a weighted cord may be run for convenience in setting broken bones.

Having thus described the invention, what is claimed is—

1. A device of the class described comprising a frame having side and end bars, and a series of independent vertically-adjustable bottom sections carried by each side bar of the frame.

2. A device of the class described comprising a frame having side and end bars, and a series of independent bottom sections carried by each side bar, each bottom section having a hanger connected to and adjustable vertically upon one of the side bars.

3. A device of the class described compris-

ing a frame having side bars, a series of independent bottom sections carried by each side bar, a slotted hanger for each bottom section, and fastenings carried by the frame and passing through the slots of the respective hangers to permit vertical adjustment of the bottom sections.

4. A device of the class described comprising a frame having side and end bars, a series of independent bottom sections carried by each side bar, each bottom section having a slotted hanger, and fastenings passing through the slots of the respective hangers and carried by the side bars for the adjustable support of the bottom sections, each bottom section also being tiltably adjustable upon its fastening.

5. A device of the class described comprising a frame having side bars, and a series of independent bottom sections carried by each of the side bars, each bottom section having a tiltably adjustable.

6. A device of the class described comprising a frame having side bars, a series of threaded fastenings carried by each side bar, a series of independent bottom sections for each side bar, each bottom section having a slotted hanger receiving one of the fastenings, a washer working in the slot and overlapping the outer side of the hanger, and a clamping-nut carried by the fastening and engaging the washer to adjustably clamp the hanger against the side bar.

7. A device of the class described comprising a carrier, suspending means, and a hanger connecting the carrier with the suspending means, said hanger having a set of arms extending to the head portion of the hanger and another set of arms extending to the foot portion of the carrier, one set of arms including turnbuckles for tiltably adjusting the carrier upon the other set of arms.

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

GEORGE B. WILT.

Witnesses:

GEORGE M. COON,
WILLIAM H. BOBBITT.