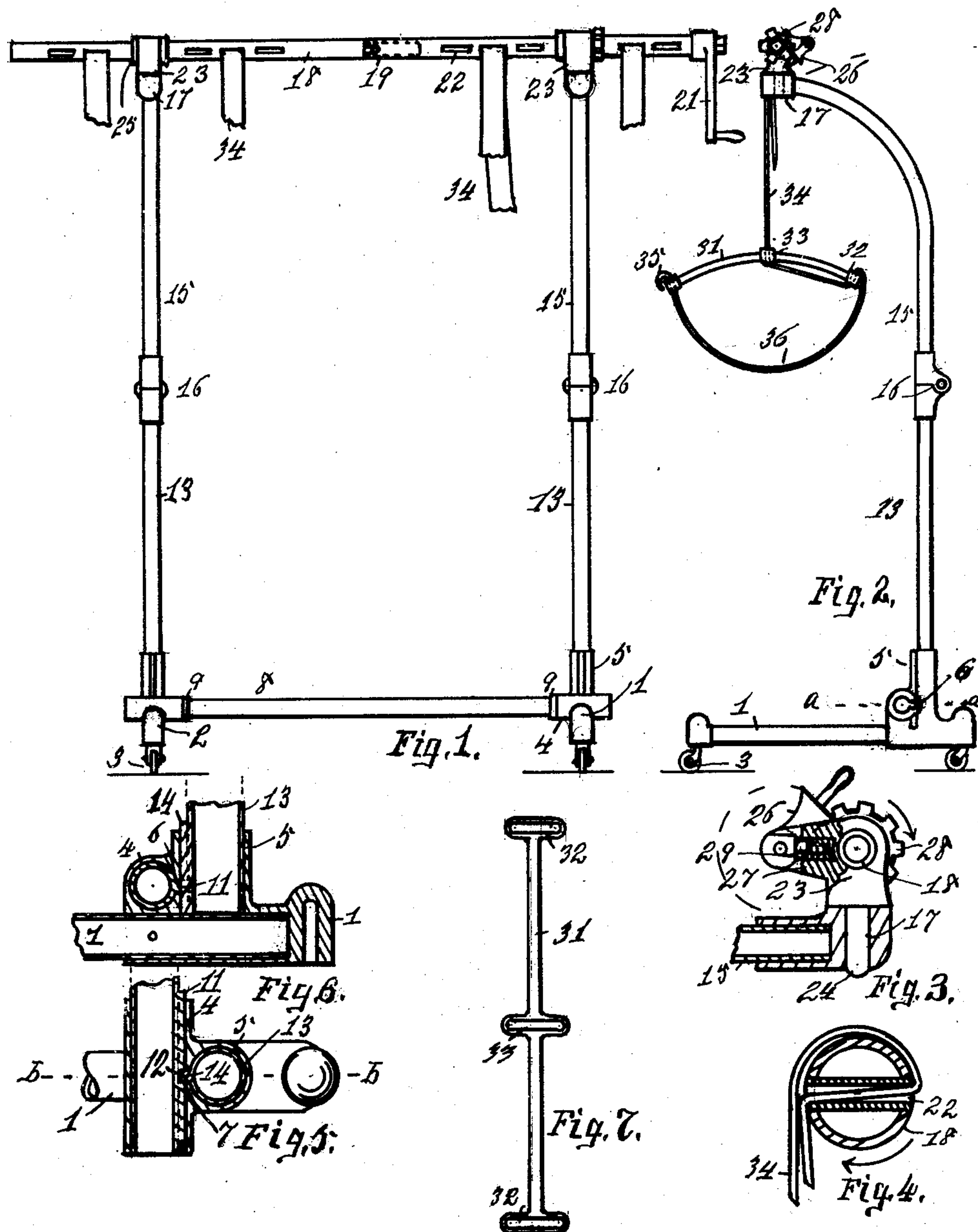


L. E. FOSDICK.
LIFTING DEVICE.
APPLICATION FILED JUNE 10, 1908.

924,754.

Patented June 15, 1909.



Witnesses.

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UNITED STATES PATENT OFFICE.

LLOYD E. FOSDICK, OF LIBERTY, INDIANA.

LIFTING DEVICE.

No. 924,754.

Specification of Letters Patent.

Patented June 15, 1909.

Application filed June 10, 1908. Serial No. 437,683.

To all whom it may concern:

Be it known that I, LLOYD E. FOSDICK, a citizen of the United States, residing at Liberty, Indiana, have invented a new and useful Improvement in Lifting Devices, of which the following is a specification.

My invention relates to lifting devices adapted to the use of undertakers, nurses, or others for lifting and moving bodies, and the objects of my improvements are to provide a device whereby a single operator without any assistance may be enabled to raise and move a body as desired; to provide the windlass with a reversible pawl and ratchet wheel for securing it from turning in either of opposite directions; to provide independently adjustable connections for the straps with the windlass; to construct the device of separable members whereby it may be quickly and easily set up for use or knocked down to form a compact bundle for storage or for transportation, and to provide a construction and assemblage of parts wherein the material is distributed for obtaining the greatest strength with the least weight. These objects are attained in the following described manner as illustrated in the accompanying drawings, in which:—

Figures 1 and 2 are respective front and end elevations of a lifting device embodying my improvements; Fig. 3, an end elevation with parts in section of the windlass and a removable bearing therefor; Fig. 4, a transverse section of the tubular windlass through one of the cable slots therein; Fig. 5, a horizontal section on the line *a—b* of Fig. 2; Fig. 6, a vertical section on the line *b—b* of Fig. 5, and Fig. 7, a plan of the stretcher bar shown in side elevation in Fig. 2.

In the drawings, the end members 1 and 2 of the base are mounted on casters 3 and each provided near its rear end with a horizontal socket 4 and a vertical socket 5. Said sockets are formed with respective key seats 6 and 7 which intersect each other. A transverse member 8 of the base is provided near each end with a collar 9 and with a key 11 which is formed with a transverse notch or gap 12. The ends of member 8 are adapted to be removably inserted within sockets 4 to the extent permitted by the collars 9 and the keys 11 within the respective key seats 6 with the notches 12 therein in registration with the key seats 7.

Standards 13 may be removably inserted within the respective vertical sockets 5 with

the keys 14 thereon in engagement both with the key seats 7 and with the notches 12 in keys 11 for securely locking together the intermediate member 8 and the end members 1 and 2 of the base. A folding extension 15 secured to the top of each standard 13 by means of a hinge 16 is curved in a forward direction and formed with a vertical bearing 17 directly over an intermediate point in the length of the corresponding end member of the base.

A windlass 18 preferably consisting of two similar tubular members separably connected together at 19 is provided with a removable crank 21 and formed with a series of transverse slots 22. Said windlass is journaled in bearings 23 which are each formed with a depending stem 24 adapted to be removably inserted within the bearings 17 in the corresponding standard. Collars 25 serve to maintain the windlass in proper longitudinal position within the bearings 23. A reversible pawl 26 pivotally secured on an extension 27 of one of the bearings 23 is maintained in engagement with the ratchet wheel 28 on the windlass by means of a spring actuated pin 29 as shown in Fig. 3.

A plural number of spreaders 31 are each formed with similar end and intermediate transverse slots 32 and 33. Straps 34 preferably of canvas and provided at one end with hooks 35 may be thereby removably secured within one of the slots 32 of a corresponding spreader and adjustably extended in downward and upward directions respectively through the opposite slot 32 and the middle slot 33 for forming a depending loop 36 as shown in Fig. 2. Said straps may be thence extended through the corresponding slots 22 in the windlass with the spreaders in the desired vertical position when the straps may be overlapped to prevent them from slipping and wound on the windlass, as shown in Fig. 4, to raise the loops with a body there- in to any desired height.

The members of the base, the standards and the windlass are preferably formed of tubing to provide as much strength as possible for a given weight of material. The members are either hinged or separably connected together that they may be tied in a short and compact bundle for convenient transportation, or quickly and easily assembled for use.

In operation, the intermediate and the end members of the base are connected to-

gether and secured by the insertion of the standards in the vertical sockets. The windlass may then be placed in either of opposite directions as desired, with the bearings thereon in engagement with and supported on the standards and directly over the base. The straps may be inserted under the body to be raised at the desired locations, as the head, shoulders, loins and feet, by means of the spreaders or otherwise. By connecting the straps with the windlass as shown in Fig. 4, the body may be raised thereby as desired. In this manner an invalid may be carefully lifted by a single nurse or operator and moved, making the device a valuable addition to hospital equipments. It is invaluable for the use of undertakers without assistance in moving bodies from the bed to the cooling board and thence to the casket.

Having fully described my improvements, what I claim as my invention and desire to secure by Letters Patent of the United States is:—

1. A lifting device comprising a base, folding standards thereon, a windlass removably supported on the standards, and a series of straps removably secured thereto and independently adjustable thereon, for the purpose specified.

2. A lifting device comprising a base mounted on casters, folding standards re-

movably supported thereon, a windlass removably supported on the standards above the middle line of the base, a strap adjustably and removably secured to the windlass, and a spreader supported thereby.

3. A lifting device comprising a frame, folding standards removably supported thereon, a windlass removably supported on the standards and formed with a transverse slot, and a strap formed with a loop at one end and adjustably and automatically secured within the slot.

4. A lifting device comprising a separable tubular frame formed of self-interlocking mechanism, a windlass removably journaled thereon and a series of straps independently and adjustably connected to the windlass and simultaneously actuated thereby for lifting the body.

5. A lifting device comprising a frame formed of self interlocking members, a tubular windlass journaled thereon, means for locking the windlass from rotating in either of opposite directions, and a series of straps independently adjustable thereon and simultaneously actuated thereby for the purpose specified.

LLOYD E. FOSDICK.

Witnesses:

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