

(No Model.)

2 Sheets—Sheet 1.

G. W. ROBBINS.

APPARATUS FOR LIFTING AND TURNING INVALIDS.

No. 258,124.

Patented May 16, 1882.

Fig. 1.

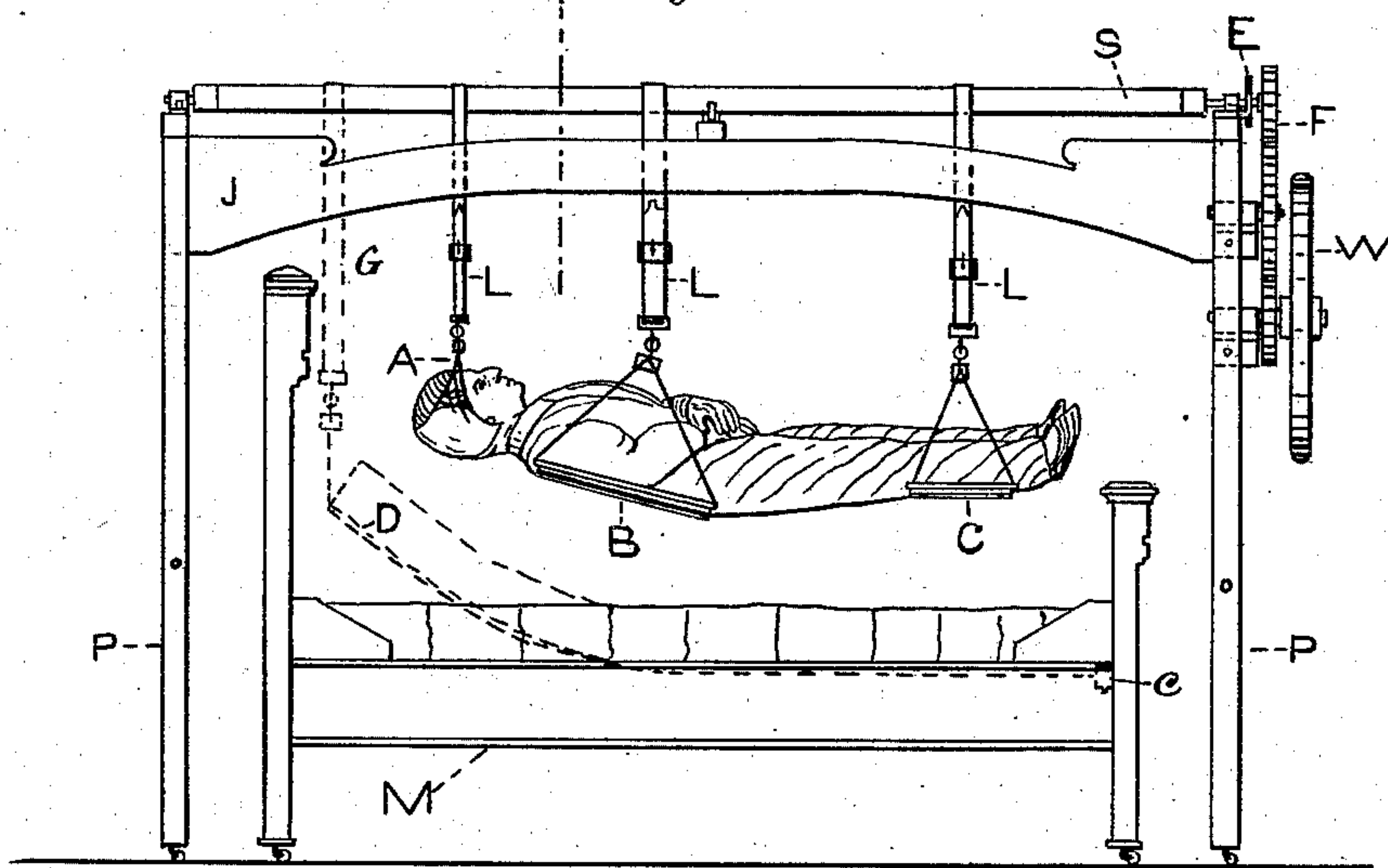


Fig. 2.

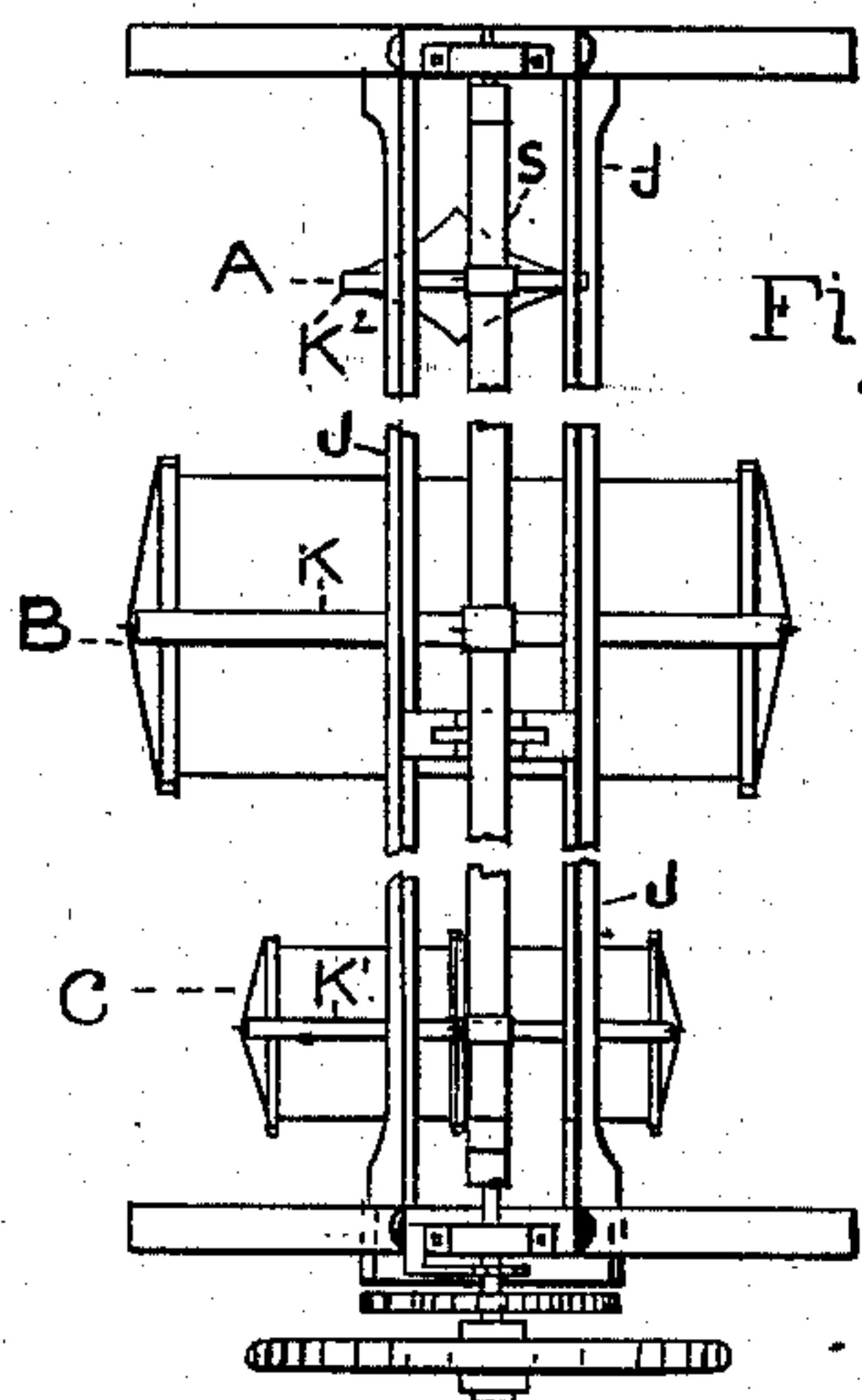
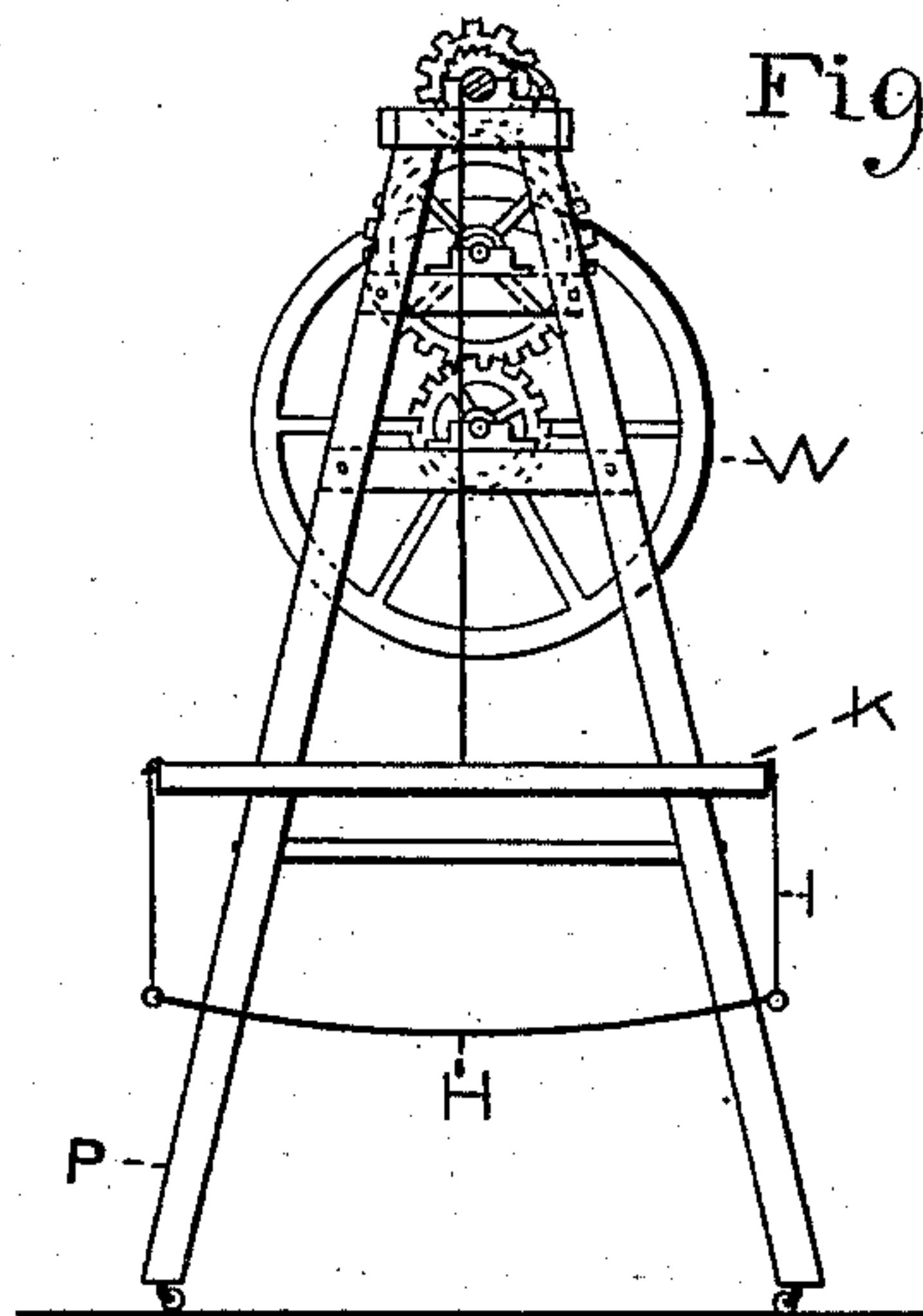


Fig. 3.



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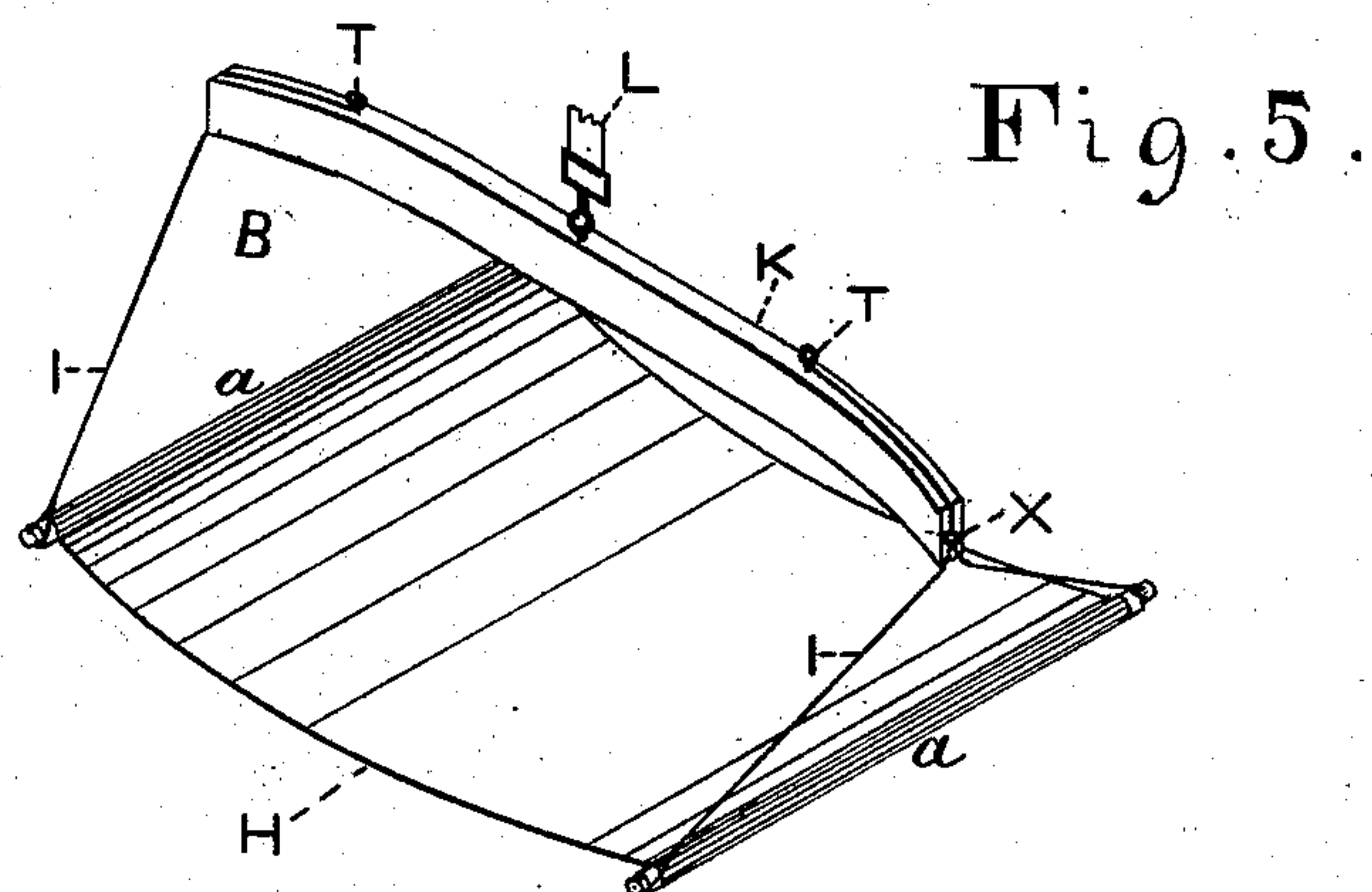


Fig. 5.

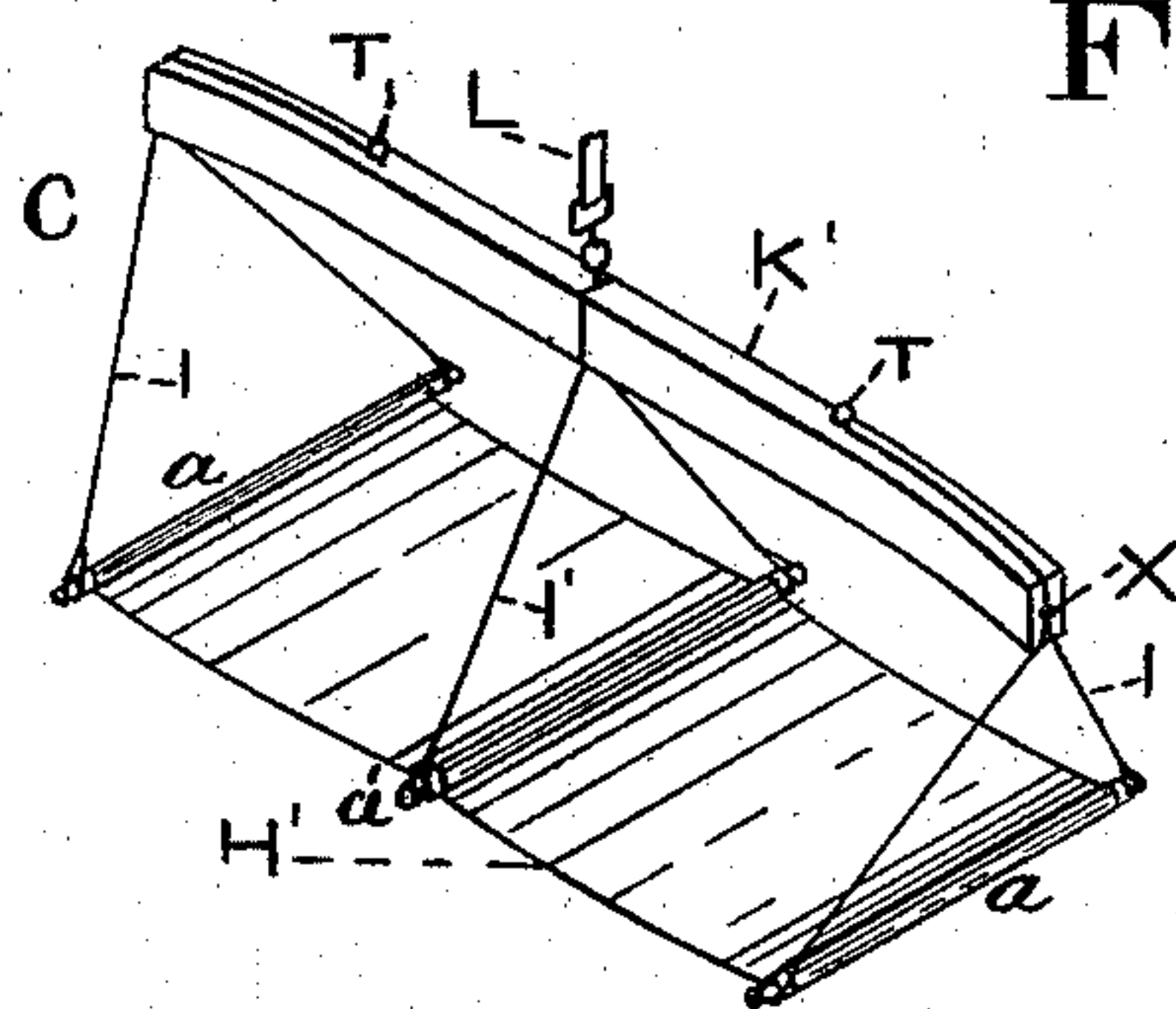


Fig. 6.

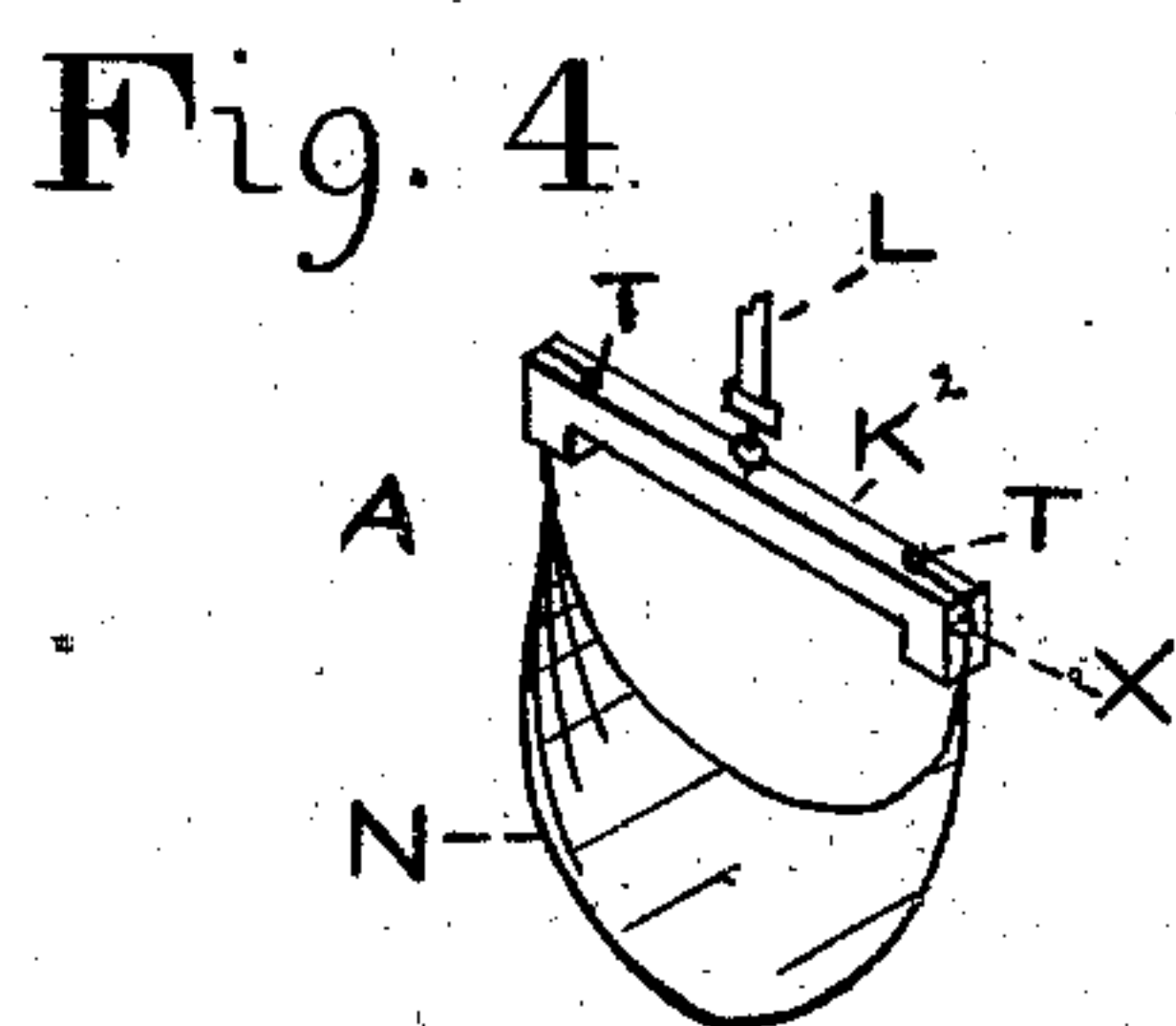


Fig. 4.

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UNITED STATES PATENT OFFICE.

GEORGE W. ROBBINS, OF FALL RIVER, MASSACHUSETTS.

APPARATUS FOR LIFTING AND TURNING INVALIDS.

SPECIFICATION forming part of Letters Patent No. 258,124, dated May 16, 1882.

Application filed February 17, 1882. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. ROBBINS, a citizen of the United States, residing at Fall River, in the county of Bristol and State of Massachusetts, have invented certain new and useful Improvements in Apparatus for Lifting and Turning Invalids; and I do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to apparatus for lifting invalids from the bed and changing their positions therein; and it consists in certain improvements in the construction of such apparatus, as hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a side view, illustrating the apparatus. Fig. 2 is a top view of the apparatus. Fig. 3 is a vertical transverse section. Figs. 4, 5, and 6 represent the several slings used in operation.

P and J designate the frame-work of the apparatus.

S indicates a horizontal shaft placed longitudinally at the top of the frame, and having bearing at each end. The said shaft is turned by means of a hand-wheel, W, and the intermediate gearing, F. A ratchet and pawl, E, at one end of the shaft serves to hold it in position as it is turned.

A number of slings (designated by A, B, and C) are suspended by means of the straps L, attached to the shaft, the sling A being intended for the head of the patient, the sling B for the body, and the sling C for the legs. The slings are severally provided with yokes K, K', and K², to which the straps L are attached, the yokes being intended to keep in proper position the canvas or other material forming the rests or supports. The sling A has the head-rest N, which is usually netting, secured to the ends of its yoke by means of cords. The slings B and C have the rests H and H', of canvas or other suitable material, provided with the rods a, secured to their extremities, as shown. The

cords I serve to connect the rest and the yoke at each end, as shown, the cords being detachably secured to each end of a rod, a, usually by loops, so that they may be readily detached as desired. In Fig. 6 the rest H' is shown as divided by an additional rod, a', at the center, the rod being held by cords I'. This arrangement is intended to prevent the legs of the patient or invalid from coming together uncomfortably. The cords I are adjustably secured to the yoke at either end, (see Fig. 5,) said cords passing through an eye, x, to a detachable fastening at T, so that either end of the rest may be raised or lowered when it is desired to turn the patient on one side or the other.

D indicates a strip of canvas, connected at one end by a strap, G, to the shaft S, and running under the bed or mattress on which the patient lies to the foot of the bed, where it is fastened at c, so that by turning the shaft S the patient may be raised to a sitting posture.

For operation the apparatus is placed longitudinally over the bedstead M, as seen in Fig. 1. The several slings are easily adjusted and readily raised by turning the hand-wheel W, which imparts motion to shaft S, the straps L winding upon the shaft, and thus gradually raising the invalid from the bed.

I claim—

1. In a lifting apparatus, one or more slings, each sling having a yoke, to the ends of which a rest is secured by cords having the adjustable fastening T X, substantially as and for the purposes set forth.

2. A sling for a lifting apparatus, having a yoke, K, in combination with a rest, H', provided with rods a at its extremities, said rods being connected by detachable cords I with the yoke, substantially as and for the purposes described.

3. In a lifting apparatus, a sling having a yoke provided with cords I and I', in combination with a rest, H', provided with rods a at its extremities, and a central rod, a', substantially as set forth and described.

4. In the lifting apparatus, the strip D, connected with the bedstead at or near the foot, said strip passing under the mattress, as shown,

and having one end connected with shaft S, substantially as and for the purpose set forth.

5 In a lifting apparatus for invalids, in combination with the horizontal shaft operated by means of the hand-wheel W, one or more slings connected with the shaft and provided with yokes having rests detachably secured thereto, as herein set forth and described.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE W. ROBBINS.

Witnesses:

EDWIN SHAW,

EDWARD HIGGINSON.