

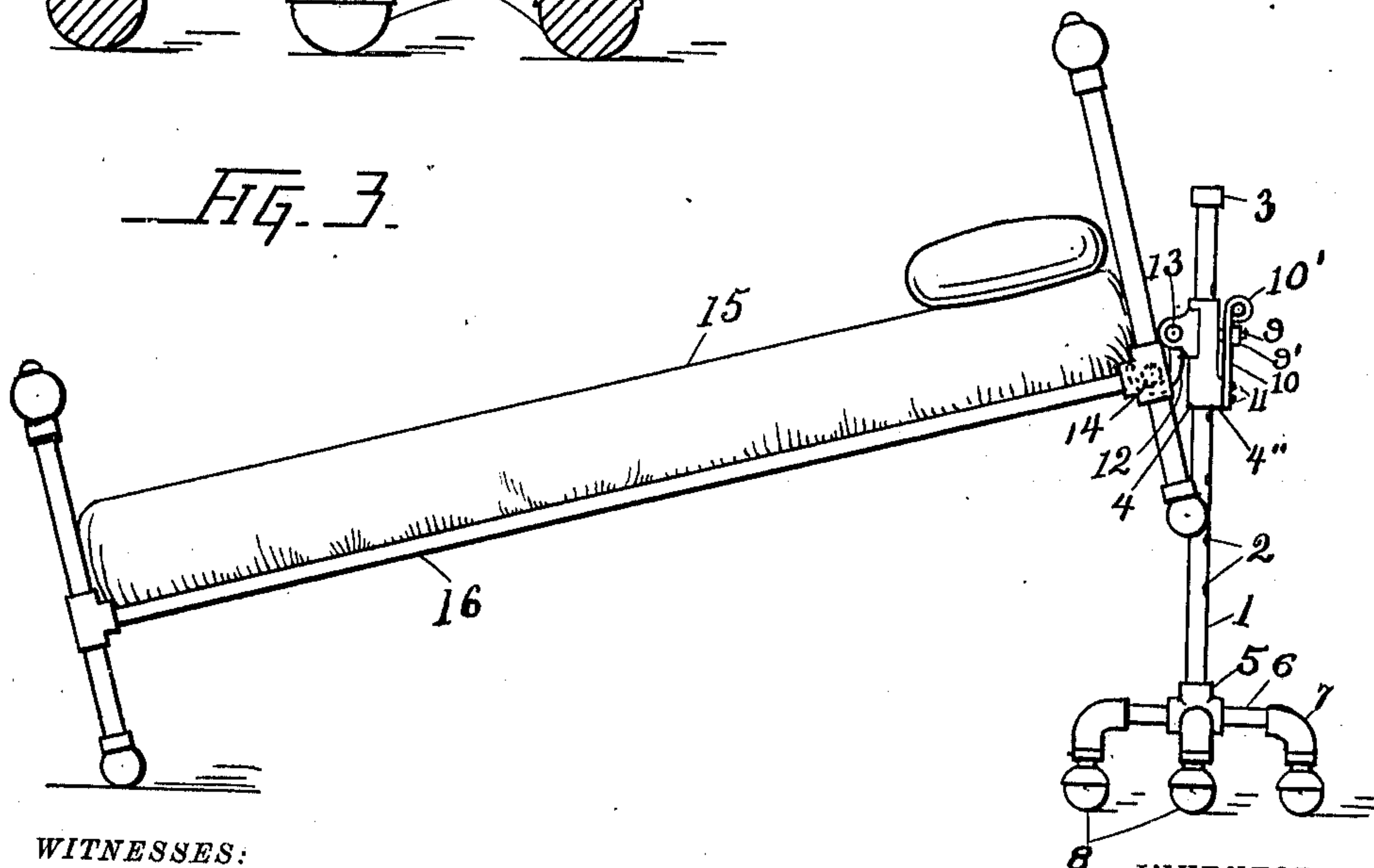
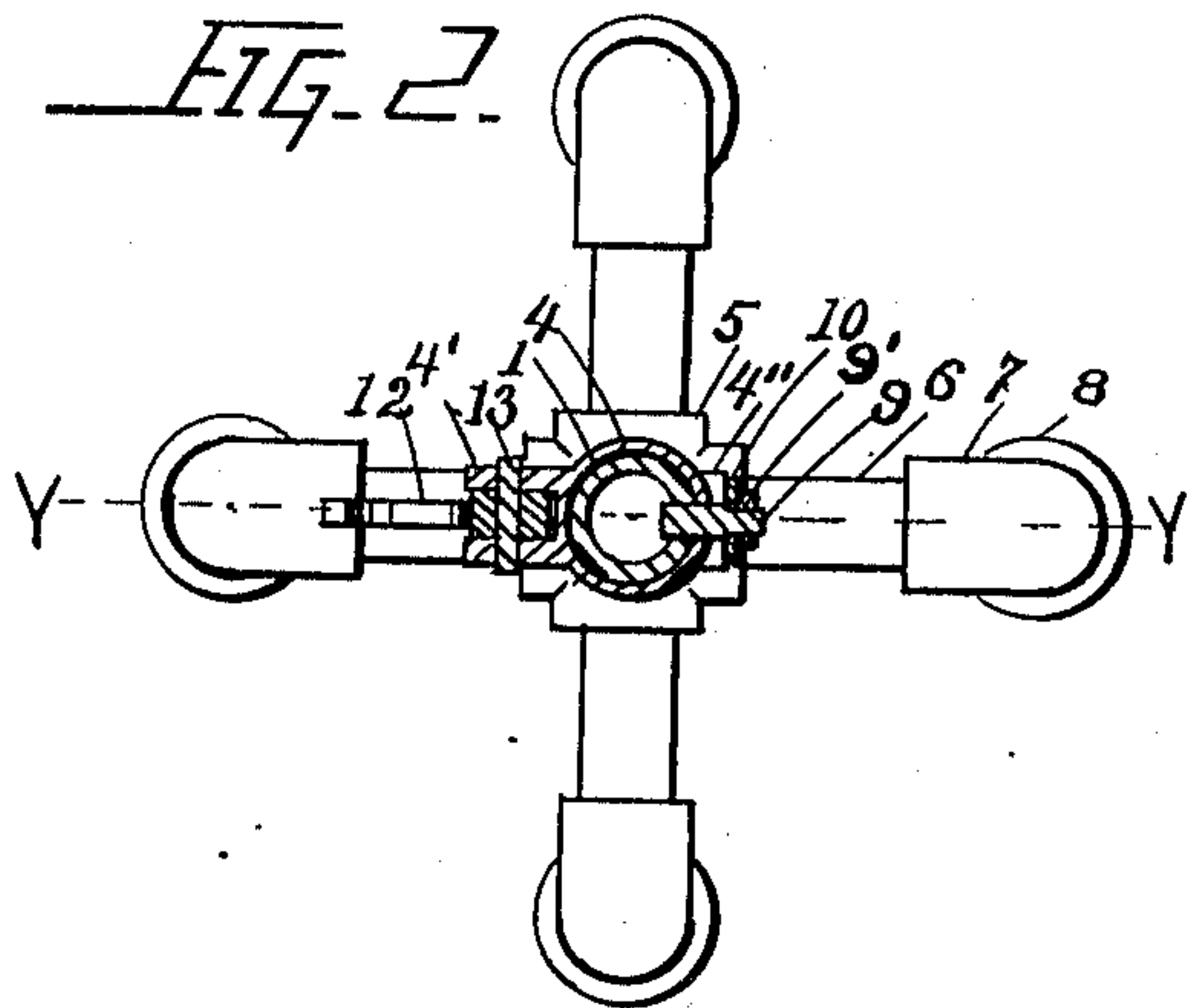
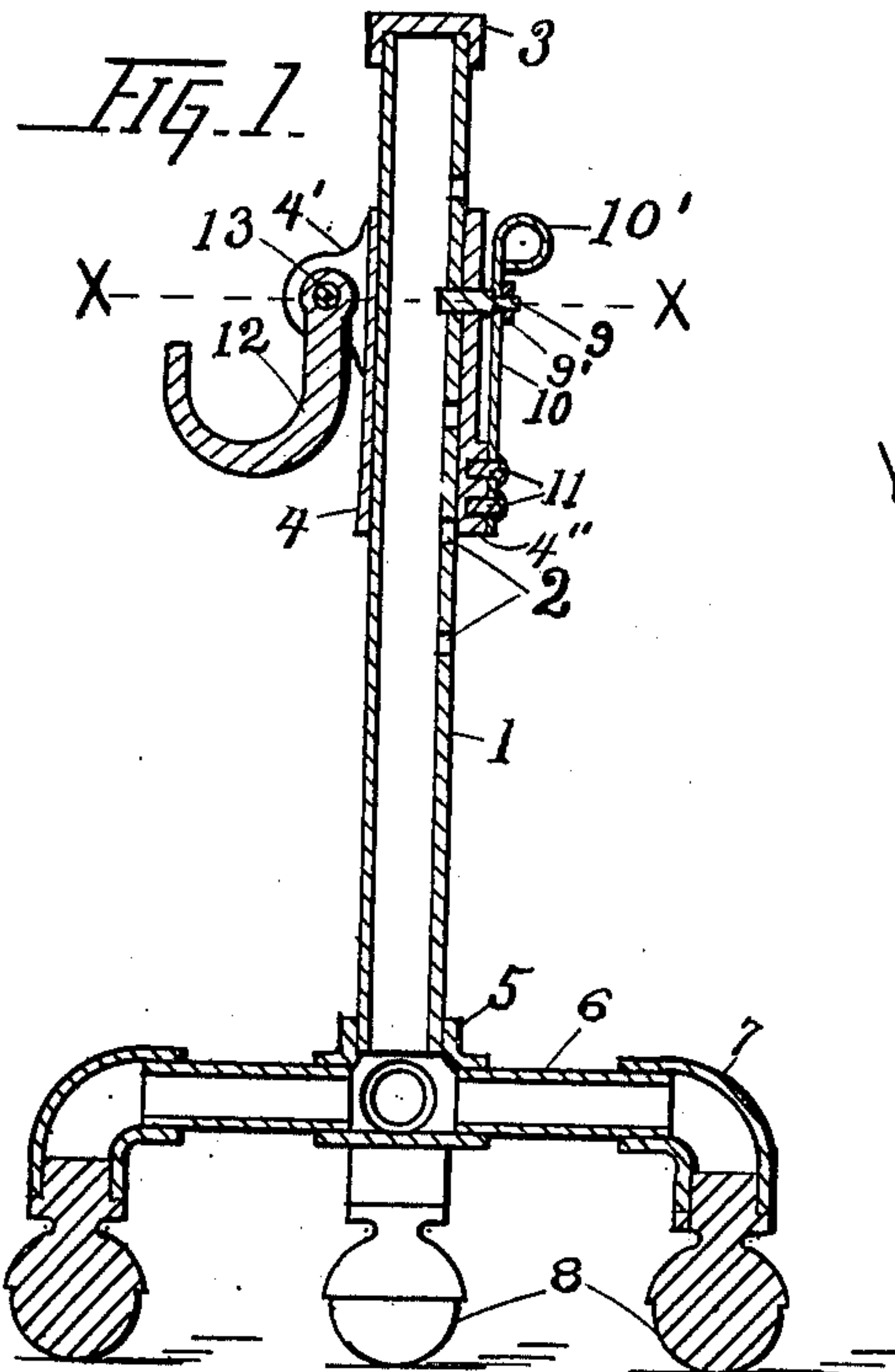
C. H. SWANGER.

BED JACK.

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992,080.

Patented May 9, 1911.



WITNESSES:

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BED-JACK.

992,080.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES H. SWANGER, a citizen of the United States, residing at St. Joseph, in the county of Buchanan and State of Missouri, have invented certain new and useful Improvements in Bed-Jacks, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to improvements in bed jacks, the objects of which are, to provide a simple, substantial and durable device by which a bed, a cot, and the like may be held in an inclined position, at any desired angle.

Further objects are to so construct and finish said jack, that the same shall be neat in appearance, be thoroughly sanitary and be particularly suitable for use in hospitals, sanatoriums, infirmaries, and the like.

I attain these objects by the mechanism illustrated in the accompanying drawing, in which:—

Figure 1 is a vertical section on the line Y Y, seen in Fig. 2. Fig. 2 is a horizontal section on the line X X, seen in Fig. 1, looking downward. Fig. 3 is a reduced side elevation of the jack as it appears when in use.

Referring to Figs. 1 and 2, upright 1 has a series of apertures 2 formed through one side thereof; said apertures being suitably spaced for adjusting the angle of inclination of a bed as hereinafter described.

Cap 3 is secured on the upper end of said upright, for forming a finish for said end, and for retaining the sleeve 4 on said upright. Said sleeve is slidably mounted on said upright, the lower end of which is secured in the upper opening of the five-way fitting 5. In the other four openings of said fitting, and extending horizontally therefrom, are secured the four pipe nipples 6, each of which has an elbow 7 secured on the outer end thereof. In each of said elbows is secured a foot 8, preferably of spherical form as shown, though the same may be of any desired form, either plain or ornamental; thus forming substantial supporting means, whereby upright 1 is supported in a vertical position. Sleeve 4 has two bearing bosses 4' and a flat faced boss 4'' formed therewith.

Slidably mounted in sleeve 4 is the pin 9, the inner end of which is inserted in any

desired one of apertures 2, for supporting said sleeve at any desired height. The outer end of said pin is passed through the free end of spring 10 and secured therein by nut 9'. The other end of said spring is secured to boss 4'' by screws 11. Said spring has ring 10' formed thereon and is adapted to move pin 9 inward to the position seen.

The upper end of rail hook 12 is pivotally secured between bosses 4', by pivot pin 13, passed through said bosses and hook. Hook 12 is adapted to support the indicated end rail 14, of an ordinary bed 15, as seen in Fig. 3; or the same may be used to support a side rail 16, of said bed, if desired.

In the operation of the described bed jack, the operator, (not shown,) with one hand grasps rail 14 and thereby manually lifts one end of bed 15 to the position seen in Fig. 3. Said operator then inserts the index finger of the other hand into ring 10', braces the thumb of said other hand against the upper end portion of sleeve 4 and thereby manually draws pin 9 outward from aperture 2, after which sleeve 4 is raised or lowered to the desired height for properly holding rail 14 by hook 12 and ring 10' is released. Sleeve 4 is then very slightly moved upward or downward which brings pin 9 into register with the desired aperture 2, upon which spring 10 moves said pin into said aperture as seen in Fig. 1, thereby holding said sleeve and the thereby supported parts at the desired height. It will be understood that the described bed jack is made in exact duplicates and used in pairs, one jack near each of the two ends of said rail.

Upright 1 is preferably formed of metal pipe, and all of the described parts are preferably of metal, substantially made and enameled for rendering the same sanitary.

Having fully described my invention, what I claim as new and original, and desire to secure by Letters Patent is:—

1. In a bed jack, a tubular upright having a plurality of apertures formed through one side thereof, said upright being provided with portable supporting means whereby the same is substantially supported in a vertical position; a sleeve slidably mounted on said upright; a supporting pin slidably mounted in said sleeve, said pin being adapted to engage the said apertures in said upright for supporting said sleeve thereon

at various heights; elastic moving means secured to said sleeve for moving said pin into said engagement and a rail hook adapted to support a rail of a bed, said hook being
5 provided with pivotal securing means, whereby the upper end of the same is pivotally secured to said sleeve.

2. In a bed jack; a tubular upright having a plurality of apertures formed through
10 one side thereof, said upright having its lower end secured in a metal stand and its upper end provided with a cap secured thereon; a sleeve, slidably mounted on said upright, said sleeve being provided with two
15 bearing bosses and a flat faced boss formed thereon; a rail hook having its upper end pivotally secured between said bosses and its

lower portion suitably formed to support the rail of a bed; a supporting pin slidably mounted in said sleeve, said pin being
20 adapted to enter the said apertures in said upright for supporting said sleeve thereon at various heights; a spring having one of its ends secured to said flat faced boss and its free end provided with a ring formed there-
25 on, and securing means whereby the free end portion of said spring is secured to the outer end of said supporting pin.

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

CHARLES H. SWANGER.

Witnesses:

EDITH WIEDMANN,
LUKE E. HINTON.

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