A. F. BARNES.

BED JACK.

APPLICATION FILED APR. 19, 1912.

1,046,720. Patented Dec. 10, 1912.

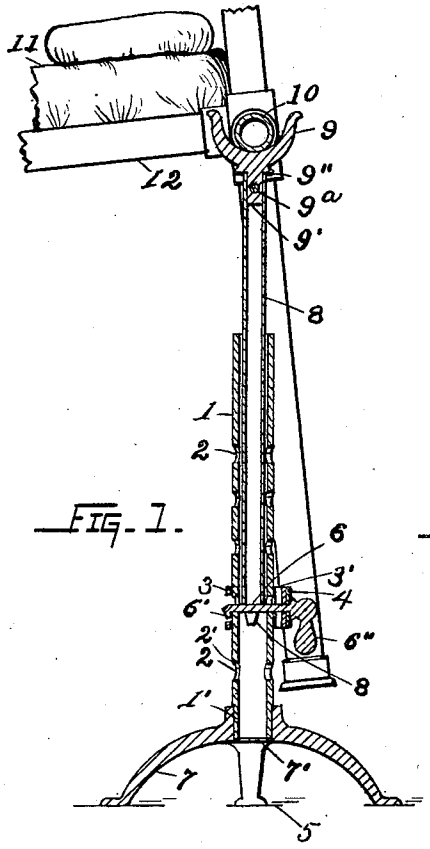

FIG. 1.

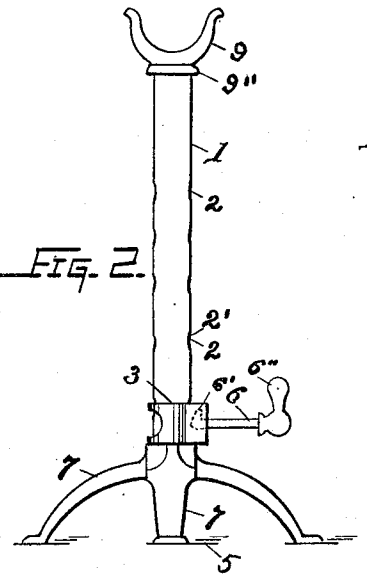

FIG. 2.

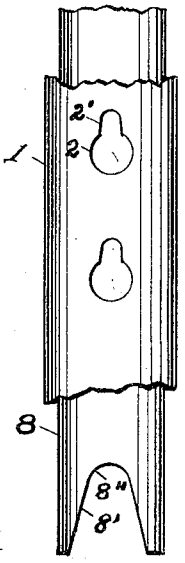

FIG. 3.

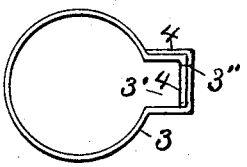

FIG. 4.

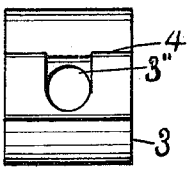

FIG. 5.

WITNESSES

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BED-JACK.

1,046,720. Specification of Letters Patent. Patented Dec. 10, 1912.

Application filed April 19, 1912. Serial No. 691,913.

To all whom it may concern:

Be it known that I, ADOLPHUS F. BARNES, 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 compact 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 load resting thereon shall be directly over, and shall press directly upon the center of the jack, thereby avoiding all lateral strain on the parts of the jack, tipping of same, when in use, and thus provide a jack that is stable and substantial. Also 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 longitudinal section cut vertically through the center of all the parts of the jack, showing the same in use, supporting a bed. Fig. 2 is a side view of the jack. Fig. 3 is an enlarged front view of certain portions of the upright and extension tubes. Fig. 4 is an enlarged top plan of the pin retainer. Fig. 5 is an enlarged front view in detail of the part seen in Fig. 4.

Referring to Fig. 1, upright 1 has a series of apertures 2, formed through both sides thereof, said apertures being suitably spaced for adjusting the angle of inclination of a bed, as hereinafter described. Said apertures are each formed with an extension 2′, seen best in Fig. 3. Pin retainer 3 is slidably mounted on upright 1, and has recess 3′ formed in the front portion thereof. Said retainer is preferably formed of sheet metal, the front portions 4, being suitably slotted and overlapped for forming pin aperture 3″ seen in Figs. 4 and 5.

Pin 6, (see Figs. 1 and 2,) has projection or flag, 6′ formed on one side of the inner end thereof, and handle 6″ formed of one side thereof, at the other end. Said pin is slidably mounted in pin aperture 3″ and is adapted to be inserted in apertures 2 while flag 6′ is carried thereby through aperture extensions 2′.

The reduced lower end portion 1′ of upright 1 is forced, shrunk, or otherwise tightly secured in aperture 7′ formed through the central portion of base 7. Said base is preferably formed as shown, though the same may be of any suitable form, either plain or ornamental, for standing on floor 5.

Slidably mounted in upright 1 is the extension 8, having notch 8′ formed in the lower end thereof, as seen in Fig. 3. Said notch has its upper portion 8″ of suitable shape and proportions to neatly fit and rest upon pin 6. Fork 9 has shank 9′ and annular shouldered projection 9″, formed therewith. Said shank is secured in the upper end of extension 8, by rivet 9ª, seen in Fig. 1. End rail 10 of bed 11 rests in said fork, for supporting said bed in an inclined position as seen. When desired the side rail 12 of said bed may be supported in the same manner.

In operation, the operator, (not shown,) grasps fork 9 and said jack and places the same beneath rail 10. Said operator then lifts said fork from the position seen in Fig. 2, to the desired height, thereby lifting said fork and bed to the position seen in Fig. 1. The operator then grasps pin retainer 3 and thereby lifts pin 6 from the position seen in Fig. 2 to the height of said pin, seen in Fig. 1, after which with the fingers of the same hand, he pushes said pin through the desired one of apertures 2. Said operator then liberates handle 6″ which gravitates to the position seen in Fig. 1. Said operator then lowers fork 9 until the upper end portion 8″, (see Fig. 3,) of notch 8′ rests on pin 6, thereby supporting extension 8 on said pin. Flag 6′ secures said pin in aperture 2 as seen in Fig. 1, and when withdrawn from said aperture rests in recess 3′ in pin retainer 3, as seen in Fig. 2. In lowering said bed to normal position, the described operations are reversed in order.

All of the described parts are preferably formed of metal, and with the exception of said pin and pin retainer are suitably enameled for rendering the same neat in appearance and thoroughly sanitary. Said pin and its retainer are preferably of brightly polished metal.

It will be understood that the described

bed jack is made in exact duplicate, and used in pairs, one jack near each of the two ends of said rail.

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

1. A vertically supported hollow upright; an extension for extending the length of said upright said extension being slidably mounted in said upright and having a notch formed in the lower end thereof; a fork on the upper end of said extension said fork being adapted to have the rail of a bed supported thereby; said hollow upright having a series of apertures of irregular form formed through both sides thereof; a pin retainer slidably mounted on said upright; a pin slidably mounted in said retainer said pin being adapted while in a certain position to be inserted in said apertures and to be secured therein by rotation of said pin from said certain position for supporting the notched lower end of said extension.

2. In a bed jack a vertically supported upright formed of tubing said upright having a series of apertures with aperture extensions therefor formed through said upright; an adjustable extension for said upright said extension being slidably retained and guided in place by said upright, bed rail supporting means secured on the upper end of said upright adapted to loosely hold and support the rail of a bed; a pin adapted to be inserted in said apertures beneath the lower end of said extension; an extension or flag formed on one side of the inner end of said pin said flag being adapted to be passed through said aperture extensions and a handle formed on one side of said pin at the outer end thereof said handle being adapted by gravity to rotate said pin and thereby to rotate said flag out of register with said aperture extensions.

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

ADOLPHUS F. BARNES.

Witnesses:
ANNA E. MYERS,
L. E. HINTON.