J. M. HOPKINS.

HOSPITAL BED ELEVATOR AND REST.

APPLICATION FILED AUG. 3, 1908.

923,525. Patented June 1, 1909.

2 SHEETS—SHEET 1.

Fig. 1.

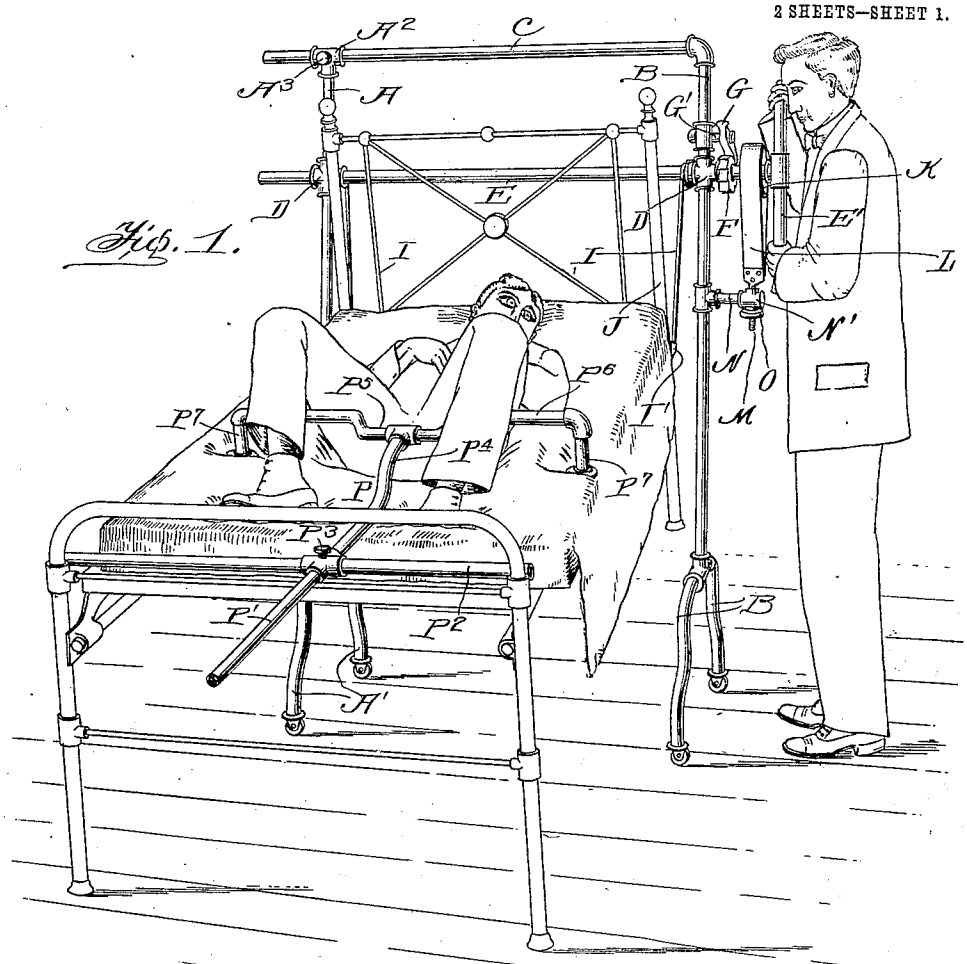
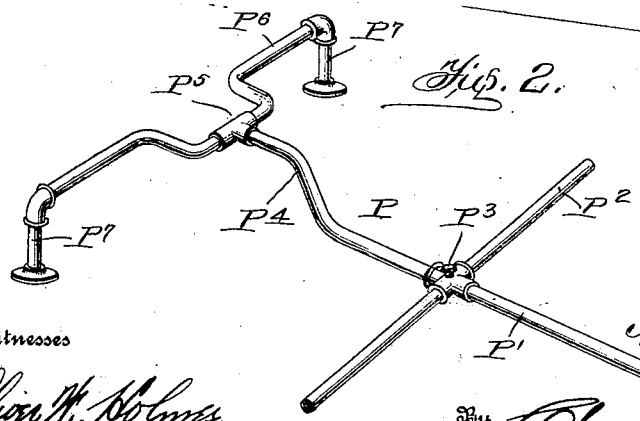


Fig. 2.



Witnesses

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2 SHEETS—SHEET 2.

Fig. 4.

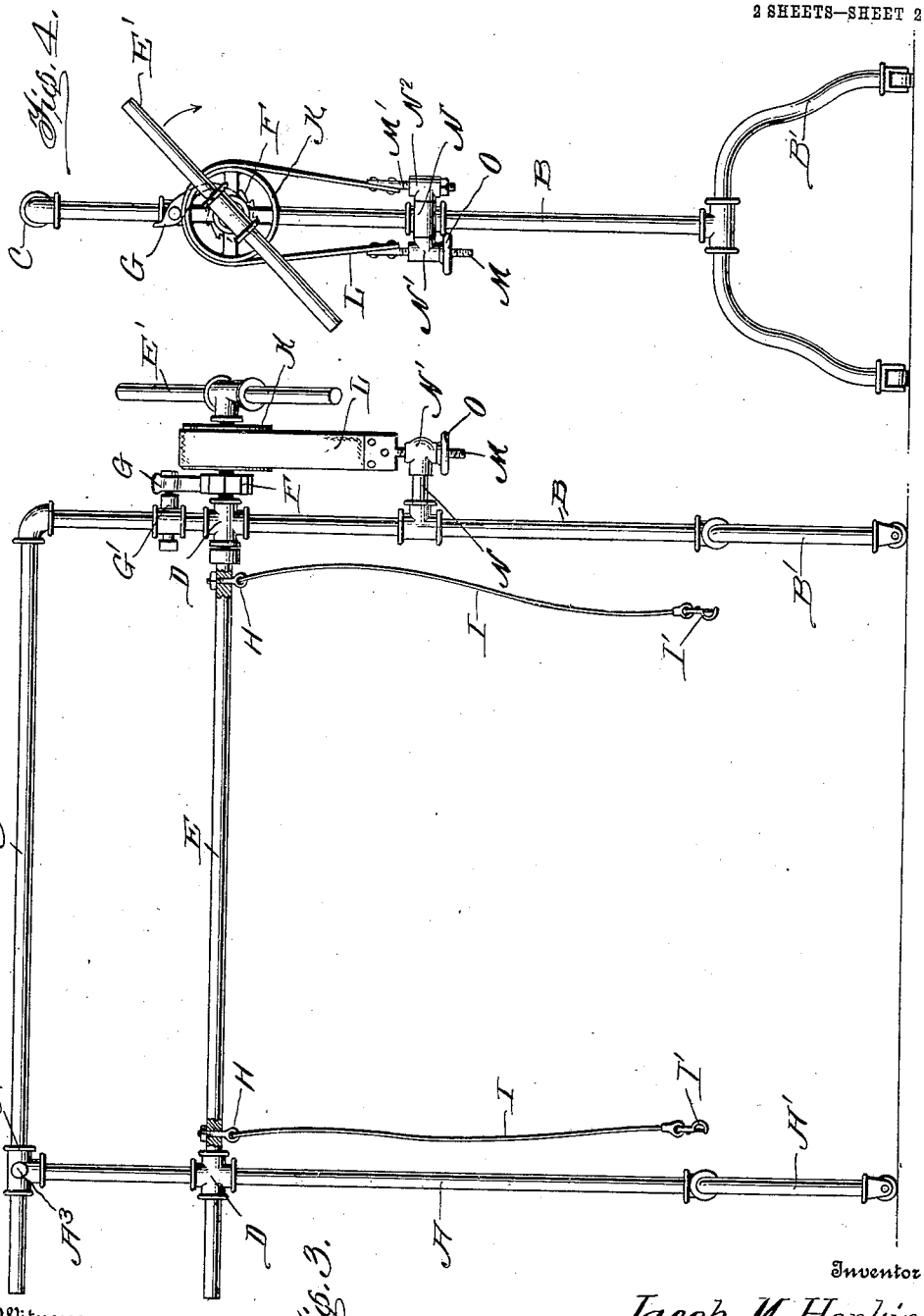


Fig. 3.

Witnesses

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HOSPITAL-BED ELEVATOR AND REST.

No. 923,525. Specification of Letters Patent. Patented June 1, 1909.

Application filed August 3, 1908. Serial No. 446,752.

To all whom it may concern:

Be it known that I, JACOB M. HOPKINS, a citizen of the United States, residing at Lexington, in the county of Fayette and State of Kentucky, have invented a new and useful Improvement in Hospital-Bed Elevators and Rests, of which the following is a specification.

This invention relates to a bed elevator and rest especially adapted to be used in hospitals, the object being to provide an elevator which can be used in connection with an ordinary bedstead so that the foot or head of the bed can be elevated.

A further object of the invention is to provide a novel rest adapted to be used in connection with the elevator for arresting the position of the person on the bed so as to prevent any danger of the person slipping when the bed is elevated.

A further object of the invention is to provide very novel means for regulating the speed of the winding shaft so that after the bed has been elevated and it is desired to lower the same, it can be lowered smoothly and slowly.

A still further object of the invention is to provide an elevator which is exceedingly simple and cheap in construction and one which can be quickly placed in position over the bed.

Another object of my invention is to provide the elevator with an adjustable frame whereby it can be quickly adjusted to suit any width bed.

With these various objects in view, my invention consists in the novel features of construction, arrangement and combination of parts hereinafter fully described, pointed out in the claims and shown in the accompanying drawings, in which—

Figure 1 is a perspective view of my improved bed elevator and rest, showing the application of the same. Fig. 2 is a perspective view of the rest detached. Fig. 3 is a front view of the elevator, and Fig. 4 is a side view of the same.

In carrying out my improved invention, I employ a frame which comprises a pair of standards A and B mounted on feet A′ and B′ which are provided with casters so that the frame can be readily moved from place to place. The upper end of the standard B carries a bar C which extends through a sleeve A^2 secured on the upper end of the standard A so that the standards can be adjusted whereby they will fit over any width bed, the bar C being locked in its adjusted position by a thumb screw A^3 carried by the sleeve A^2.

The standards are provided with bearing sleeves D in which is mounted a winding shaft E provided with a handle E′ at one end for rotating the same. Secured on the winding shaft E to the outside of the standard B is a ratchet wheel F adapetd to be engaged by a gravity pawl G carried by an arm G′ extending outwardly from the standard B so that when the shaft is turned so as to elevate the bedstead, it will be held in its adjusted position as will be hereinafter fully described.

Secured in transverse bores formed in the winding shaft E are eye bolts H carrying cables I provided with hooks I′ at their free ends adapted to be secured to an ordinary bedstead J when the frame is arranged over the same as clearly shown in Fig. 1 so that when the handle is turned the cables will be wound upon the shaft E so as to elevate the head of the bed, it of course being understood that the frame can be arranged over the foot of the bed and cables connected to the same so as to elevate the foot when it is desired. Secured on the winding shaft E between the ratchet wheel F and the handle E′ is a pulley K over which is arranged a band L one end of which is connected to a bolt M secured in a sleeve N′ of an arm N extending outwardly from the standard B and the other end of the band L carries a bolt M′ which extends through a sleeve N^2 carried by the arm N and mounted thereon is a wheel nut O so that the tension of the band can be adjusted whereby when it is desired to lower the bedstead after it has been raised, it is only necessary to throw the pawl out of engagement with the ratchet wheel and by adjusting the tension of the band the bedstead can be lowered slowly.

In connection with my improved elevator, I use a rest P for arresting the position of the patient when arranged on a bed so that all danger of the person sliding when the bed is elevated is prevented. The rest comprises a main stem P′ on which is slidably mounted a cross bar P^2 locked in its adjusted position by a set screw P^3 which is adapted to engage the foot of the bed and hold the rest in the required position. One end of the stem P′ is bent upwardly as clearly shown at P^4 and is connected to a bowed portion P^5 of a cross bar P^6 forming a seat for the

patient, the cross bar P^6 being supported by legs P^7 having enlarged ends adapted to rest on the bed and hold the rest in position. It will be seen by this arrangement that the patient is held in a position that an instrument can be readily used or that a bedpan can be inserted when desired. By this construction I am enabled to use my improved elevator rest with an ordinary bedstead without changing the construction of the same in any way, thereby saving a great deal of expense.

From the foregoing description, it will be seen that I have provided a very novel bed elevator and rest which is so constructed that it can be readily placed in position over an ordinary bedstead and connected to the same whereby the bedstead can be elevated and it will be seen that when the rest is in position, the patient will be held on the bed without any danger of the patient sliding to the foot of the bed.

What I claim is:—

1. A device of the kind described comprising a movable adjustable frame adapted to be arranged over one end of an ordinary bedstead, a winding shaft mounted transversely of said frame, cables carried by said shaft provided with hooks at their ends for connecting the same to the head of the bedstead and means for operating said shaft together with means for regulating the speed of the same.

2. The combination with a bedstead adapted to be raised in an inclined position, of a rest for arresting the position of the person when in the bed, said rest comprising a main stem having an upwardly projecting portion at one end, a cross bar slidably mounted on said stem, means for locking said cross bar in its adjusted position, a bowed cross bar connected to said upwardly projecting end of the stem, said cross bar being provided with legs at its ends for supporting the same above the bed.

3. A bed elevator comprising a pair of standards provided with feet, one of said standards being provided with a laterally projecting bar working in a sleeve carried by the other standard, means for locking said bar in its adjusted position in said sleeve, a shaft mounted in sleeves carried by the standards below said bar, cables connected to said shaft provided with hooks at their ends, a handle connected to one end of said shaft for operating the same, a ratchet carried by said shaft, a pawl carried by one of the standards for engaging said ratchet, a frictional wheel carried by said shaft and a band mounted over said wheel together with means for adjusting said band.

4. In a bed elevator the combination with an adjustable frame mounted on feet provided with casters, of bearing sleeves formed integral with said frame, a shaft mounted in said bearing sleeves extending outwardly beyond the vertical standards of the frame, a handle connected to one end of said shaft, a ratchet carried by said shaft adapted to be engaged by a pawl carried by one of the standards of the frame, a pulley fixed to said shaft adjacent said handle, a band arranged over said pulley having its free ends connected to bolts, an arm secured to said standards provided with sleeves adapted to receive said bolts and a nut mounted on one of said bolts and a wheel on the other for adjusting the tension of said band.

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Witnesses:
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