No. 764,141. PATENTED JULY 5, 1904.

G. H. MILLER.

BED FOR INVALIDS.

APPLICATION FILED AUG. 8, 1903.

NO MODEL. 2 SHEETS—SHEET 1.

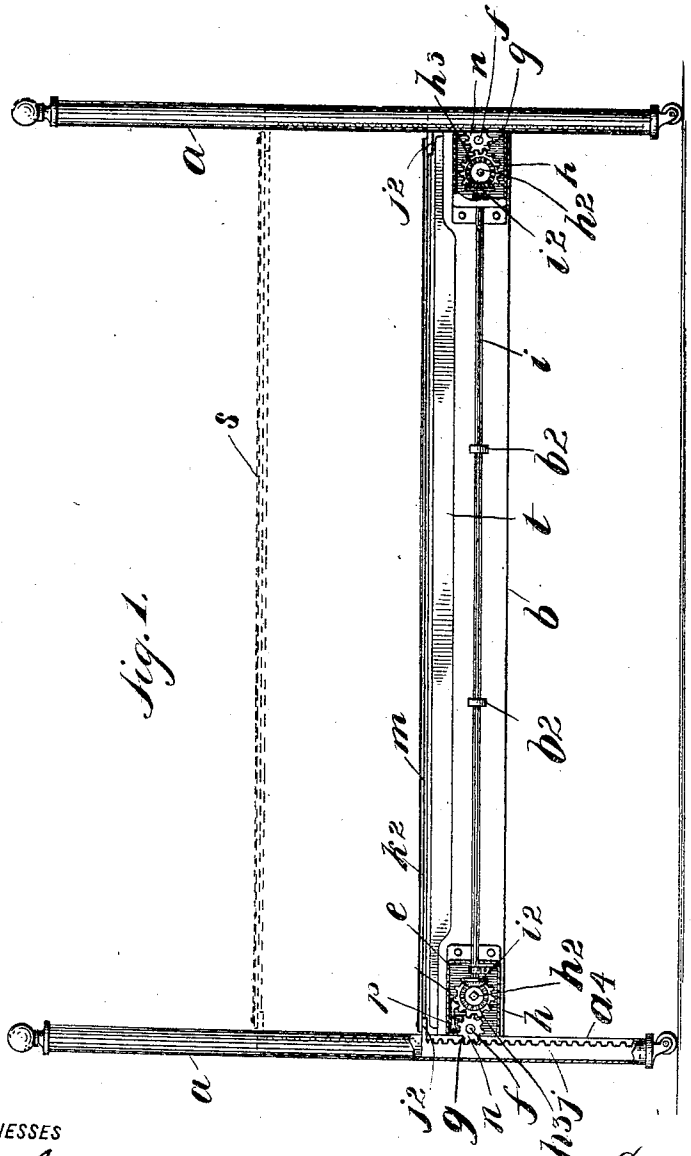


Fig. 1.

WITNESSES

F. A. Stuart

L. E. Mulvaney

BY

INVENTOR

George H. Miller

Edgar Tate & Co

ATTORNEYS

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NO MODEL. 2 SHEETS—SHEET 2.

Fig. 2.

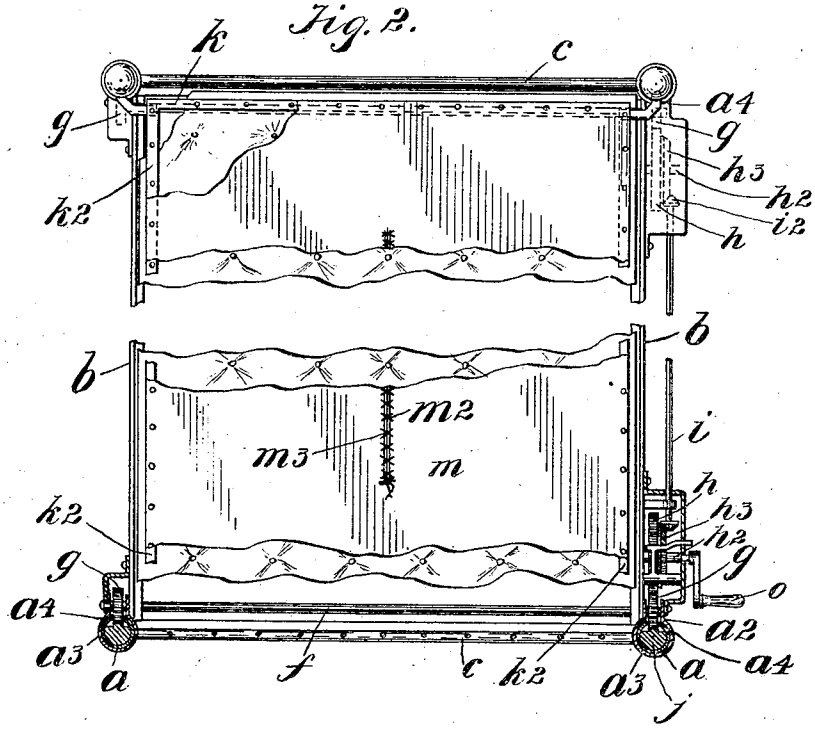
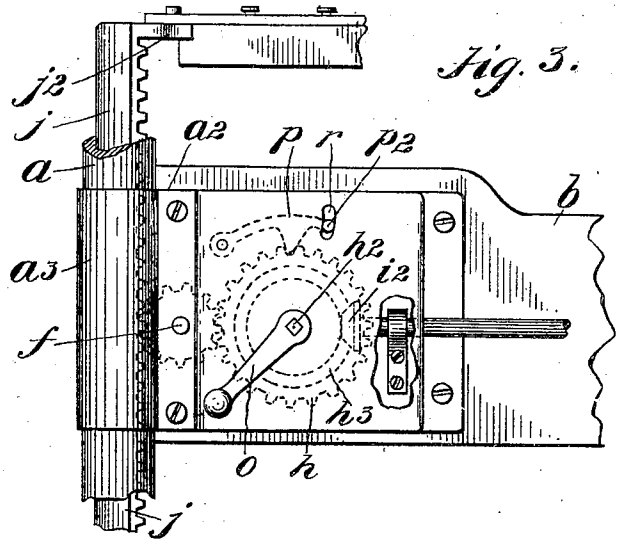


Fig. 3.



WITNESSES

F. A. Stewart

L. E. Mulreany

INVENTOR

George H. Miller

BY Edgar Tate & Co

ATTORNEYS

No. 764,141. Patented July 5, 1904.

UNITED STATES PATENT OFFICE.

GEORGE H. MILLER, OF FLATBUSH, NEW YORK.

BED FOR INVALIDS.

SPECIFICATION forming part of Letters Patent No. 764,141, dated July 5, 1904.

Application filed August 8, 1903. Serial No. 168,695. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. MILLER, a citizen of the United States, and residing at Flatbush, in the county of Kings and State of New York, have invented certain new and useful Improvements in Beds for Invalids, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

The object of this invention is to provide an improved bed designed for the use of invalids, whereby the occupant of the bed may be raised and supported above the bed proper so as to permit of the "making up" of the bed and the cleaning and renovating thereof and for other purposes, a further object being to provide a bed of the class specified which is particularly adapted for use in hospitals and other places of this class; and with these and other objects in view the invention consists in a bed as hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which—

Figure 1 is a sectional side view of a bed made according to my invention; Fig. 2, a sectional plan view thereof, and Fig. 3 an enlarged side view of one corner of the bedstead or frame.

In the drawings forming part of this specification I have shown a main bedstead or frame comprising the usual corner-posts *a*, side bars *b*, and end members *c*, and in Fig. 2 one of the end members is shown in horizontal section and the other in full lines.

Secured to each end of the side bars *b* in any desired manner is a box *e*, and each of the posts *a* is provided with inwardly-directed jaws a^2, which in the form of construction shown are connected with bands or sleeves a^3, secured to said posts.

Passing through each end portion of the bedstead or frame and through the jaws a^2 is a shaft *f*, and these shafts are provided at each end with a gear-wheel or pinion *g*. In each of the boxes *e* is mounted a gear-wheel *h*, each of which is provided with a short shaft h^2, and each of these shafts is also provided with a beveled gear-wheel h^3, and one of the side bars *b* is provided with keepers b^2, in which is mounted a shaft *i*, and the ends of this shaft enter the corresponding boxes *e* and are each provided with a beveled gear-wheel i^2, and these beveled gear-wheels i^2 on the shaft *i* operate in connection with the beveled gear-wheels h^3 on the short shafts h^2.

The corner-posts *a* are tubular in form, and mounted in each is a rack-bar *j*, and each of the said posts is provided with a vertical slot a^4, and the rack-bars *j* are provided with angular or curved arms j^2, which pass through the slots a^4 in the posts *a*, and the arms j^2 support a supplemental frame consisting of end bars *k* and side bars k^2, and this supplemental frame is adapted to move vertically, as hereinafter described, and secured thereto is a sheet *m*, of canvas or other strong fabric.

One of the short shafts h^2 is provided with a crank *o*, by means of which the supplemental frame, which is connected with the rack-bars *j*, may be raised or lowered whenever desired.

Mounted in one of the boxes *e*, preferably adjacent to the crank *o*, is a pawl *p*, which operates in connection with the corresponding rack gear-wheel *h*, and this pawl is provided with a finger-piece p^2, which passes through a slot *r* in the side of the corresponding box *e* and by means of which the pawl may be disengaged from its rack-wheel *h*.

Whenever it is desired to raise the supplemental frame, the crank *o* is turned in the proper direction, and said frame may be raised into the position shown in dotted lines at *s* in Fig. 1, and the pawl *p* holds said frame in this raised position, and in order to lower the supplemental frame the pawl is raised and said frame will descend, and this movement may be regulated by the crank *o*.

The main bedstead or frame is provided in practice with the usual mattress and other bedding *t*, and the canvas sheet *m* normally rests thereon, and the patient lies on this sheet, and whenever it is so desired the patient may be raised into the position indicated in Fig. 1 by the dotted lines *s*, and the bed may be "made up" or renovated, after which the supplemental frame with the patient thereon

may be lowered into its normal position, as indicated in full lines in Fig. 1.

The sheet m is also provided with a center opening m^2, which is closed by a lacing m^3, and by means of this construction the patient may use a vessel when necessary and when the supplemental frame is in a raised position without being removed from the bed.

In the form of construction shown the boxes e are bolted or screwed both to the side bars b and to the jaws a^2 on the posts a; but these boxes may be secured to the bars b only, and the said bars b may be connected with the end portions of the bedstead in the usual or any desired way.

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

A bedstead of the usual form, comprising end portions and side bars and adapted to support a mattress and other bedding, one of the side bars being also provided at the ends thereof with boxes, and the corner-posts of the bedstead being hollow and provided with vertical slots, rack-bars mounted in said posts and provided with arms which extend through said slots, a supplemental frame connected with said arms and provided with a covering, transverse shafts connected with the end portions of the bedstead and extending into said boxes, a longitudinal shaft-support by the side bar with which said boxes are connected and extending into said boxes, said transverse shafts and said longitudinal shaft being geared together in said boxes and pinions operating in connection with said rack-bars and geared in connection with said transverse shafts, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 6th day of August, 1903.

GEORGE H. MILLER.

Witnesses:
F. A. STEWART,
C. E. MULREANY.