

(No Model.)

M. SAMUELS.
FOLDING BED.

No. 464,803.

Patented Dec. 8, 1891.

Fig. 1. → y

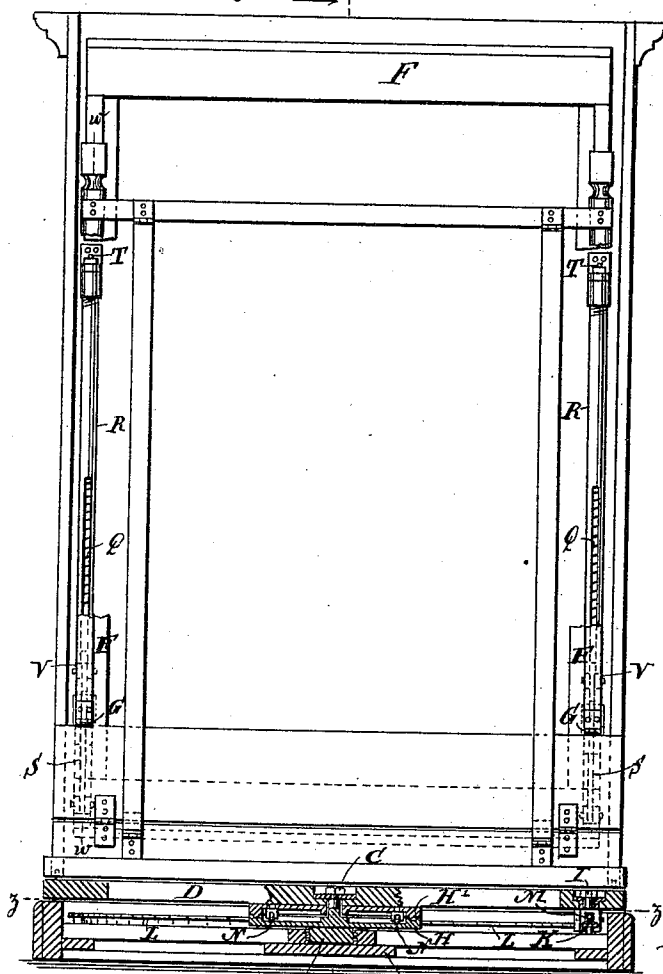
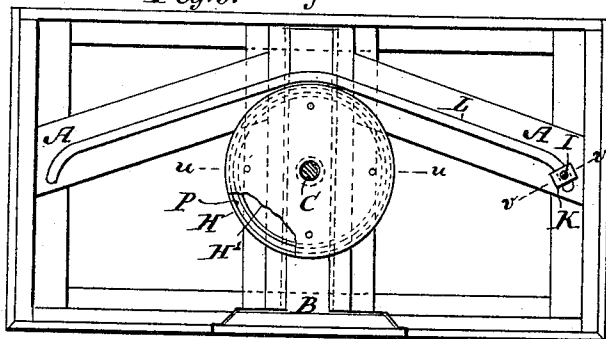


Fig. 3. B y A



WITNESSES:

Edward Wolff.
William Miller

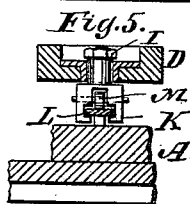


Fig. 2. → x

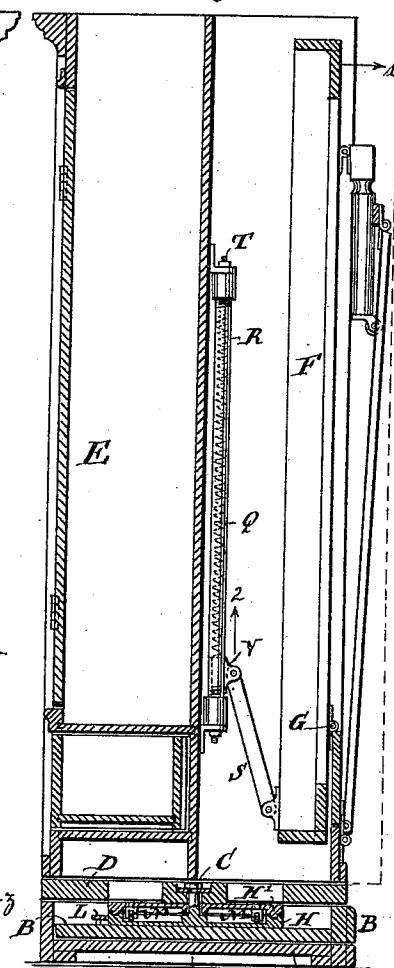


Fig. 4. x c A

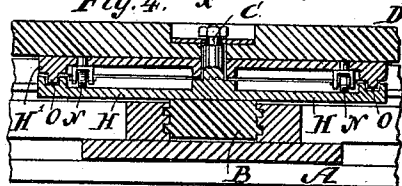
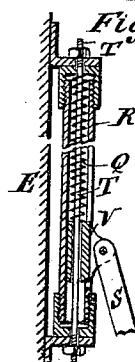


Fig. 6.



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UNITED STATES PATENT OFFICE.

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FOLDING BED.

SPECIFICATION forming part of Letters Patent No. 464,803, dated December 8, 1891.

Application filed January 8, 1891. Serial No. 377,166. (No model.)

To all whom it may concern:

Be it known that I, MARKS SAMUELS, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Folding Beds, of which the following is a specification.

This invention relates to an improvement in folding beds; and the invention consists in the details of construction set forth in the following specification and claims, and illustrated in the annexed drawings, in which—

Figure 1 is a face view of a folding bed sectioned along *x x*; Fig. 2. Fig. 2 is a section along *y y*, Fig. 1. Fig. 3 is a section along *z z*, Fig. 1. Fig. 4 is a section along *u u*, Fig. 3. Fig. 5 is a section along *v v*, Fig. 3. Fig. 6 is a detail sectional view of a balancing spring.

In the drawings, the letter A indicates a base or support. A frame or movable portion B is adapted to move in a suitable way or guide in the base A, as already set forth in United States Letters Patent No. 373,311, granted to me and another November 15, 1887. To the movable portion B is fixed a disk H, and a similar disk H' is fixed to the bottom portion D of a folding bed or other article of furniture. The article of furniture shown in the drawings consists of an upright head-frame E and a folding bed F, adapted to open or close by swinging about a joint or hinge G. The portion D is made to swivel about a pin or pivot C, extending from the disk portion H. The bottom or portion D is provided with a pin or pivot I, having a guide K, adapted to travel along a track or way L. If the base A stands with its rear portion against a wall and the portion D is swiveled, the action of the guide K, moving along track L, will move the portions D B outward or away from the wall, so as to prevent scraping or injuring of the wall, as already explained in said Letters Patent above named.

An anti-friction roller M is interposed between the guide K and way L, so as to rest on the top of the way and support the weight or part of the weight of the swiveling object, so that such swiveling is considerably eased. Anti-friction rollers N, interposed between the disk portions H H', enable the portion H' to readily turn or swivel on portion H. Said

portions H H' are held in position relative to one another by a tongue O, Fig. 4, on one disk portion engaging a groove P, Fig. 3, on the other disk portion.

The folding bed F, hinged to the base portion at G, is pivotally connected at its inner end with one extremity of a link S, the opposite extremity of which is pivotally connected to a slide or piston V, adapted to rise and fall within a tube R, which, as here shown, is supported by the article of furniture E. The tube R is provided with a longitudinal slot through which projects a part of the slide or piston in order to enable the latter to connect with the link S, while permitting the slide or piston to rise and fall within the tube. A guide-rod T extends lengthwise through the tube, and round the same is arranged a spiral or other suitable balancing spring Q, which bears at its lower end against the slide or piston. The guide-rod T prevents buckling or bending of the spring, while the tube R conceals and protects the spring from dirt and other matter. When the folding bed F is swung outward upon its pivot G, the slide or piston V will rise in the direction of the arrow 2, Fig. 2, thereby compressing the spring Q, so that when the folding bed F is closed the closing operation is materially facilitated by the resiliency of the compressed spring. I have illustrated a pair of tubes R and springs Q and connections, but do not confine myself to this particular number.

What I claim as new, and desire to secure by Letters Patent, is—

1. A folding bed consisting of a base A, having a cam-shaped way L, a rectilinearly-sliding frame B, moving on the base and provided on its upper side with an attached disk H, having at its center a rigid immovable upwardly-projecting pivot C, an article of furniture E, having a base portion D, provided with a guide K, containing an anti-friction roller M, resting upon the upper side of the cam-shaped way L, a disk H', attached to the under side of the bottom portion of the article of furniture and journaled at its center upon the rigid immovable pivot-pin of the disk, which is secured to the sliding frame, and anti-friction rollers interposed between the two disks, substantially as described.

2. The combination, in a folding bed, of a base-frame provided with an upright head-frame, a swinging bed-frame pivotally mounted upon the base-frame, a vertical tube im-
5 movably fixed to the upright head-frame and having a longitudinal slot, a stationary guide-rod extending longitudinally through the slot-
10 ted tube, a slide or piston moving on the guide-rod and provided with a part which projects through the slot in the tube, a link pivoted
at one extremity to the projecting part of the slide or piston and at the opposite extrem-

ity to the swinging bed-frame, and a spring mounted on the guide-rod in the tube and pressing against the slide or piston, substantially as described. 15

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

M. SAMUELS.

Witnesses:

WM. C. HAUFF,
E. F. KASTENHUBER.