

No. 669,311.

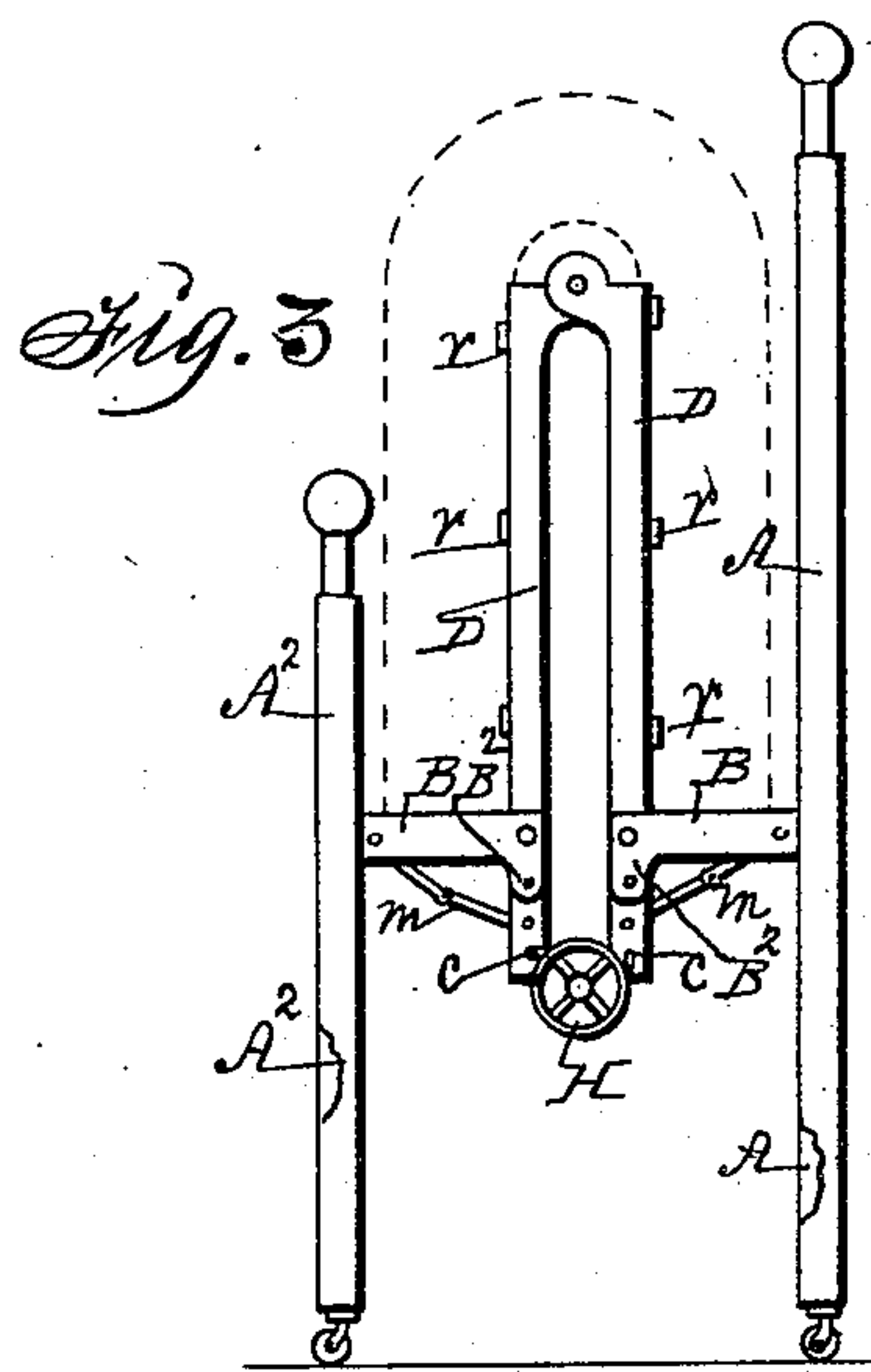
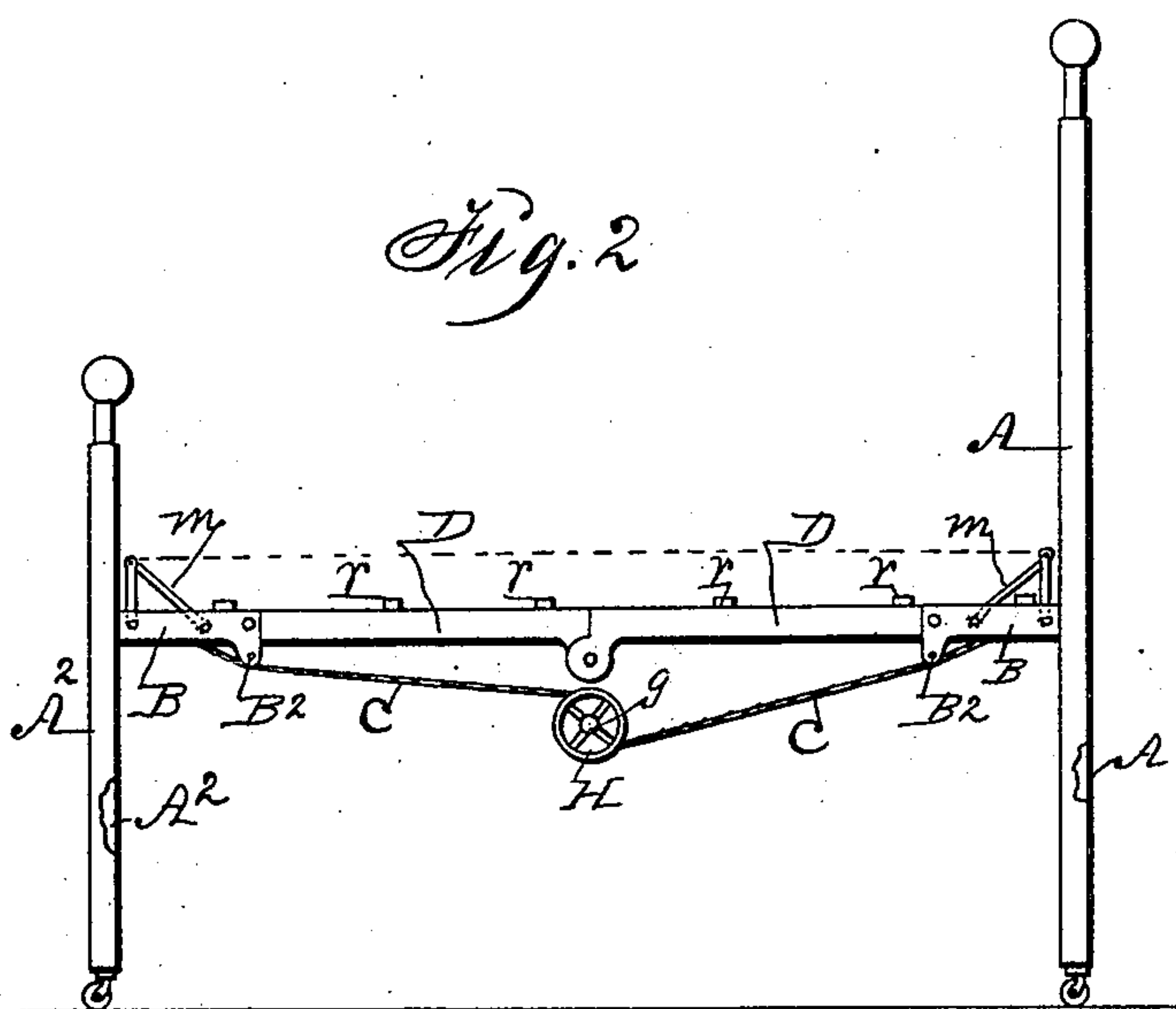
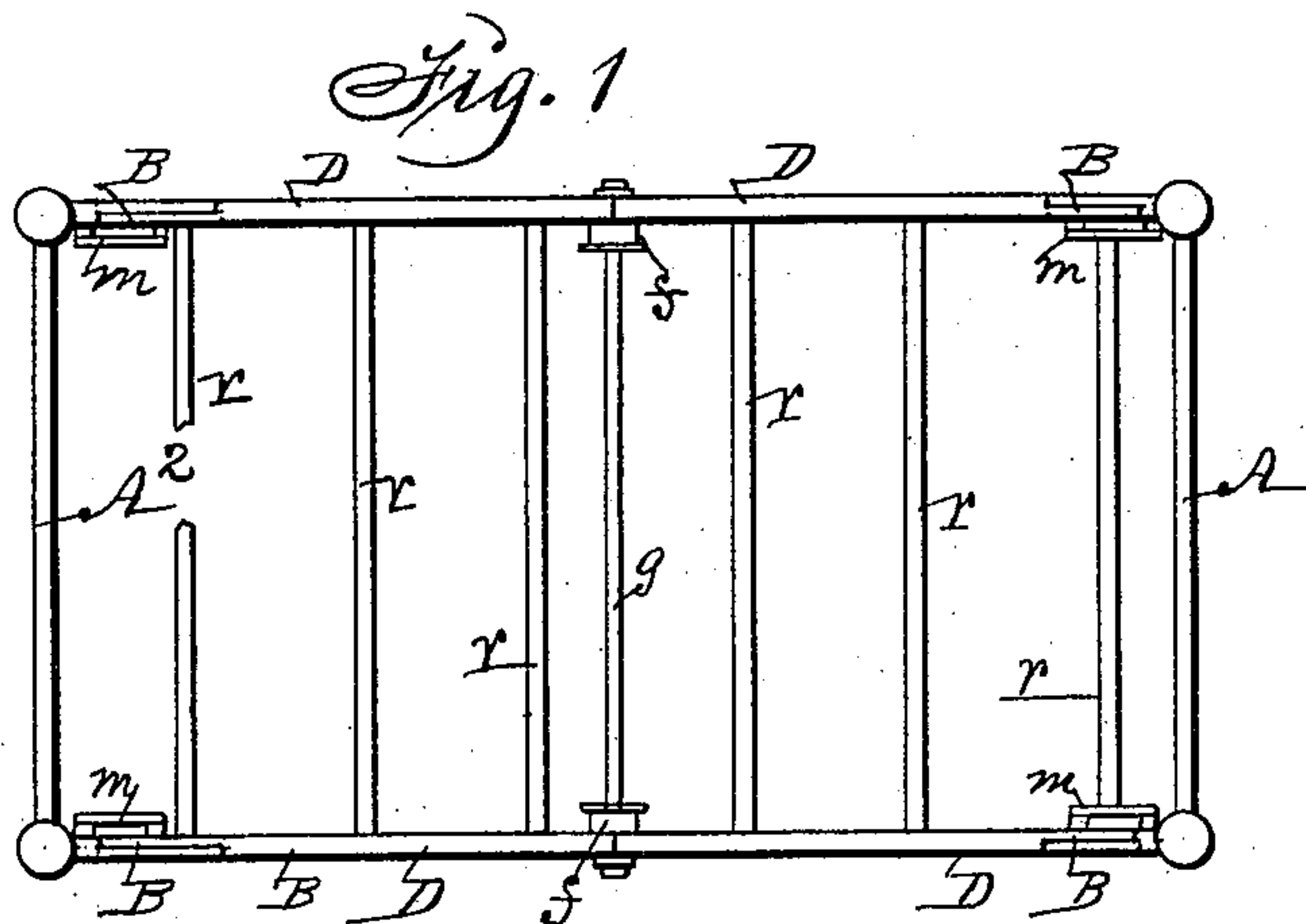
Patented Mar. 5, 1901.

C. S. PAGE.
FOLDING BED.

(Application filed June 28, 1900.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses:
H. C. Stuart.
R. S. Orwig.

Inventor: Calvin S. Page,
By Thomas C. Orwig, Attorney

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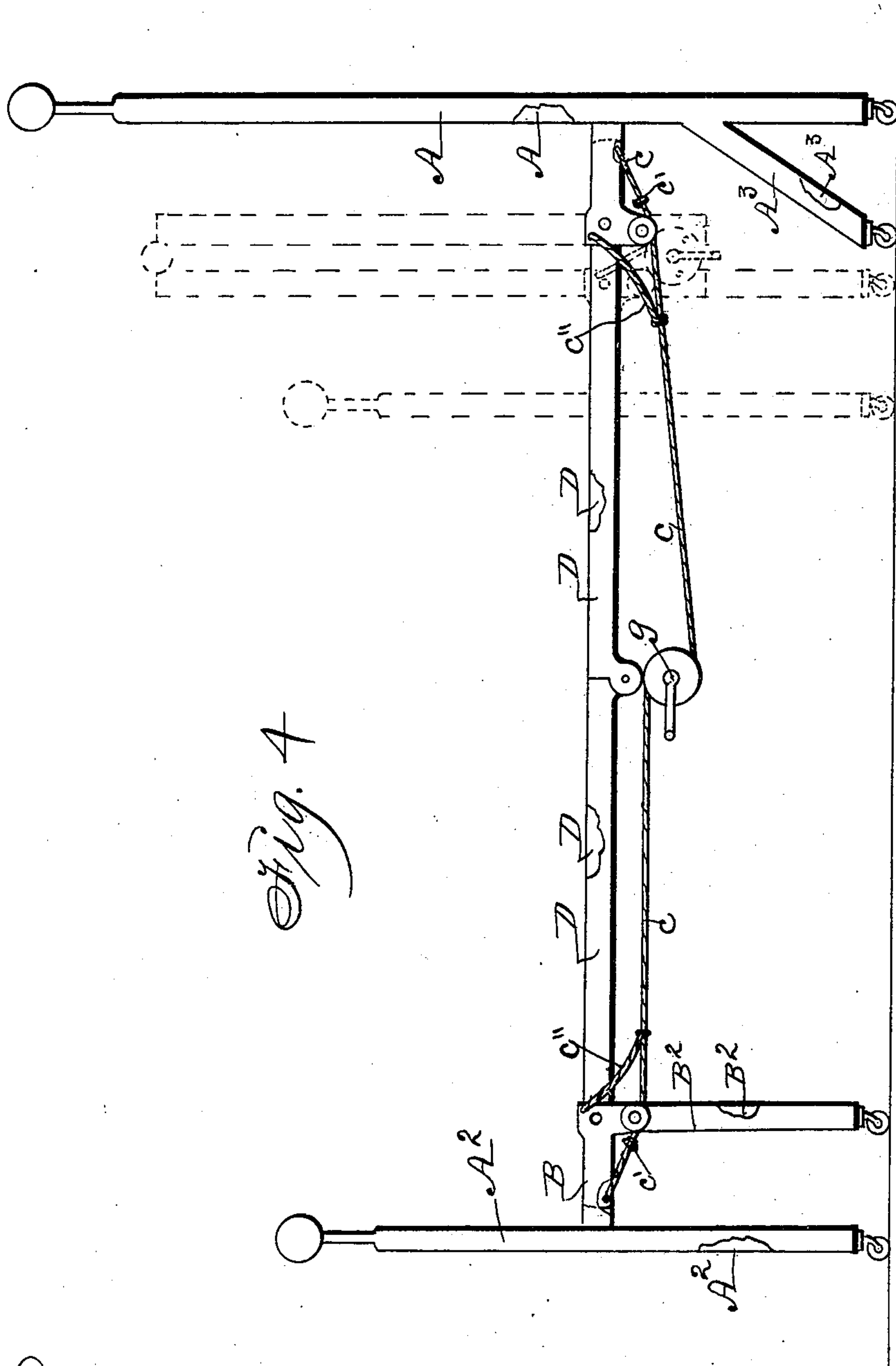


Fig. 4

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UNITED STATES PATENT OFFICE.

CALVIN S. PAGE, OF DES MOINES, IOWA.

FOLDING BED.

SPECIFICATION forming part of Letters Patent No. 669,311, dated March 5, 1901.

Application filed June 28, 1900. Serial No. 21,896. (No model.)

To all whom it may concern:

Be it known that I, CALVIN S. PAGE, a citizen of the United States, residing at Des Moines, in the county of Polk and State of Iowa, have invented a new and useful Folding Bed, of which the following is a specification.

My object is to provide a simple, cheap, durable, and efficient folding bed in which the foot portion can be readily brought close to the headboard and the jointed rails folded into vertical and parallel positions by simply turning a crank and without removing the mattress and bedclothes and all parts readily returned to their normal positions as required for practical use.

My invention consists in the construction, arrangement, and combination of parts, as hereinafter set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which—

Figure 1 is a top view of the bed in position as required for placing a mattress and bedclothes thereon. Fig. 2 is a side elevation of the bed, that in appearance is similar to the old-style bedsteads composed of a headboard, a footboard, and rails for connecting them. Dotted lines indicate a mattress placed loosely thereon. Fig. 3 shows the bed in a compact folded position and dotted lines indicate the position of the mattress when the bed is folded. Fig. 4 is a side view showing a modification of Fig. 2 and means for maintaining the ends perpendicular.

The letter A designates the head-end portion of the bed; that may be made of wood or metal and vary in size and may be plain or ornamental.

B represents sections of rails fixed to the corner-posts of the headboard permanently or detachably. They have downward projections B², to which are journaled directing-pulleys.

A² is the footboard, to which rail-sections corresponding with those on the headboard A are fixed.

Rails D, having stiff back joints at their centers, are pivoted at some distance from their ends to the ends of the fixed rail-sections B in such a manner that the jointed rails can be doubled into position, as shown in Fig. 3.

Ropes or cables c are fixed to the free ends of the jointed rails D and to drums f on the ends of a rotatable shaft g in such a manner that the shaft will be suspended under the jointed rails. Hand-wheels H on the ends of the shaft g serve as a means for rotating the shaft g and winding the ropes c upon the drums f.

Jointed rods m are pivotally connected with the free ends of the jointed rails D and the fixed rail-sections B in such a manner that they will aid in retaining the jointed rails stationary in their horizontal normal positions and also in their doubled vertical positions.

A plurality of cross-bars r, fixed to the jointed rails D, will support a mattress, as indicated by dotted lines in Fig. 3. In place of the slats r woven wire may be fixed to jointed rails.

To prevent the headboard or footboard from tilting, a bracket A³ may be fixed to the corner-posts, or the projections B² of the rail-sections B may extend down to engage a floor, as shown in Fig. 4.

By forming or fixing stops c' on the ropes c and connecting branches c'' with the ropes c, as shown in Fig. 4, the stops c' will engage the pulleys, and the force applied to wind the ropes on the drums f will be applied to the short rail-sections B direct to draw the head end and foot end portions of the bed toward each other as soon as the slack in the branches c'' is taken up and the stops c' first engage the pulleys.

To fold the bed into position as shown in Fig. 3, one of the hand-wheels H must be seized and pressed upward and rotated. The hand-wheels thus contacting with the joints of the rails D and the force applied to the ends of the rails by winding the ropes c upon the drums f will cause the rails to bend upward and to draw the headboard A and the footboard A² toward each other and fold the bed into a contracted position, as shown in Fig. 3. Pulling the footboard A² away from the headboard A allows the jointed rails D to resume their normal horizontal positions.

Having described the construction, functions, arrangement, and combination of the different parts, the practical operation and utility of my invention will be readily under-

stood by persons familiar with the art to which it pertains.

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

5 1. In a folding bed, a short rail-section fixed to each corner-post and provided with a downward projection at its free end, jointed rails pivoted to the ends of said fixed sections to extend horizontally in opposite directions
10 from their pivots, ropes fixed to the free ends of said jointed rails and extended over bearings on the downward projections of the fixed rail-sections and means for operating the ropes for adjusting the bed, arranged and
15 combined to operate in the manner set forth for the purposes stated.

2. A folding bed, comprising a headboard, a footboard, short rail-sections fixed to the corners of said head and foot boards and provided with downward projections at their free
20 ends, two mating jointed rails pivotally connected at some distance from their ends with the end portions of said short sections, a rotatable shaft having drums on its ends under
25 the joints of the jointed rails, ropes fixed to the drums and extended over the ends of the projections on the short rail-sections and fixed to the free ends of the jointed rails, and means for supporting a mattress on the jointed rails,
30 arranged and combined to operate in the manner set forth, for the purposes stated.

3. A folding bed comprising a headboard, a footboard, short rail-sections fixed to the

corners of said head and foot boards and provided with downward projections at their
35 free ends, two mating jointed rails pivotally connected at some distance from their ends with the end portions of said short rail-sections, a rotatable shaft having drums on its
40 ends under the joints of the jointed rails, ropes fixed to the drums and extended over the ends of the projections on the short rail-sections and fixed to the free ends of the jointed rails, means for supporting a mattress
45 on the jointed rails, and means to prevent the upright ends of the bed from tilting, arranged and combined to operate in the manner set forth for the purposes stated.

4. In a folding bed, a short rail-section fixed to a corner-post and provided with a downward
50 projection, a pulley attached to said projection, a jointed rail pivotally connected with the free end of said fixed rail-section so as to let its free end extend toward the post, a rope fixed to the free end of the jointed
55 and pivoted rail and extended over said pulley and provided with a knot to engage the pulley, a second rope fixed to the free end of said fixed rail-section and to the first-mentioned rope and means for pulling the ropes,
60 arranged and combined to operate in the manner set forth for the purposes stated.

CALVIN S. PAGE.

Witnesses:

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