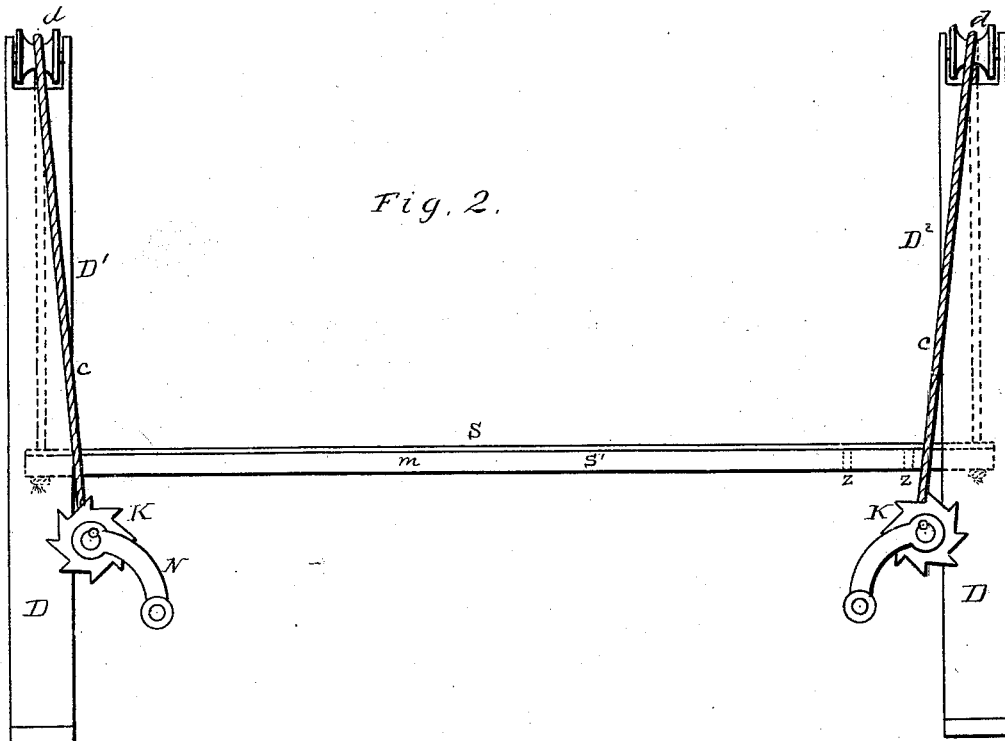
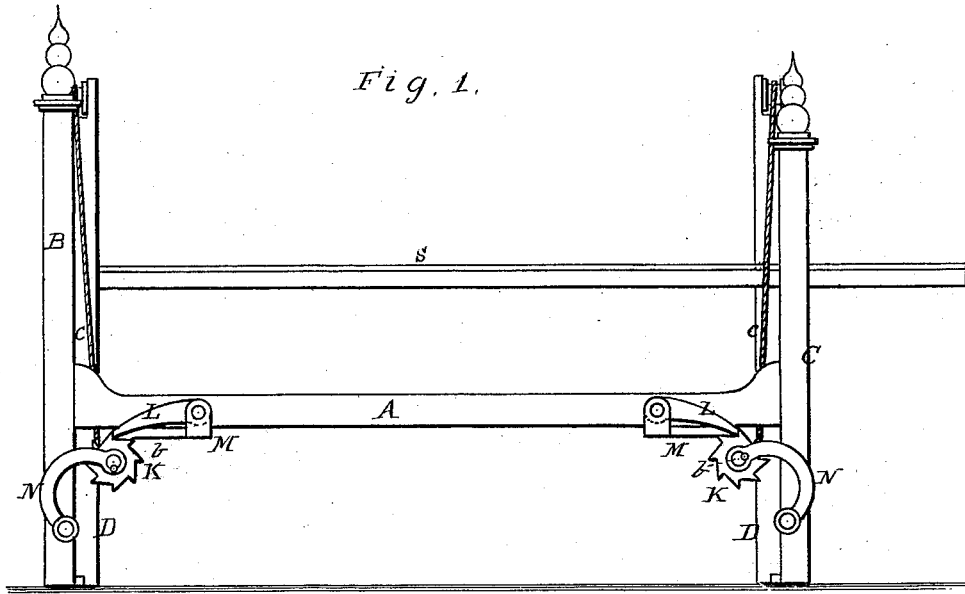


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Invalid-Bedstead.

No. 168,503.

Patented Oct. 5, 1875.



WITNESSES  
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*George C. W. Shaw*

INVENTOR  
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 ATTORNEYS

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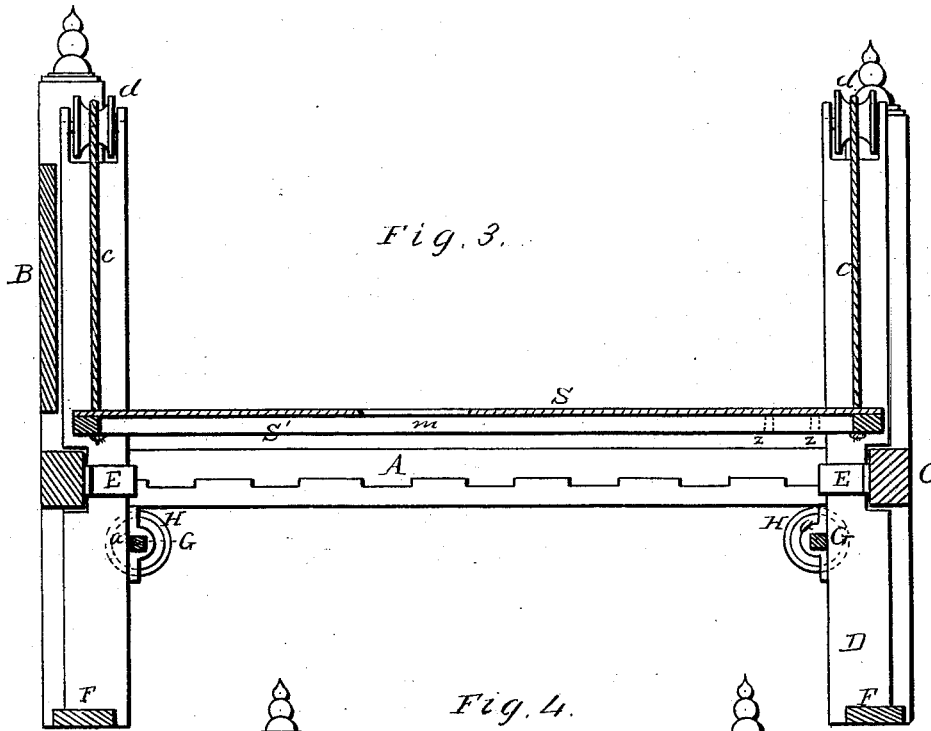


Fig. 3.

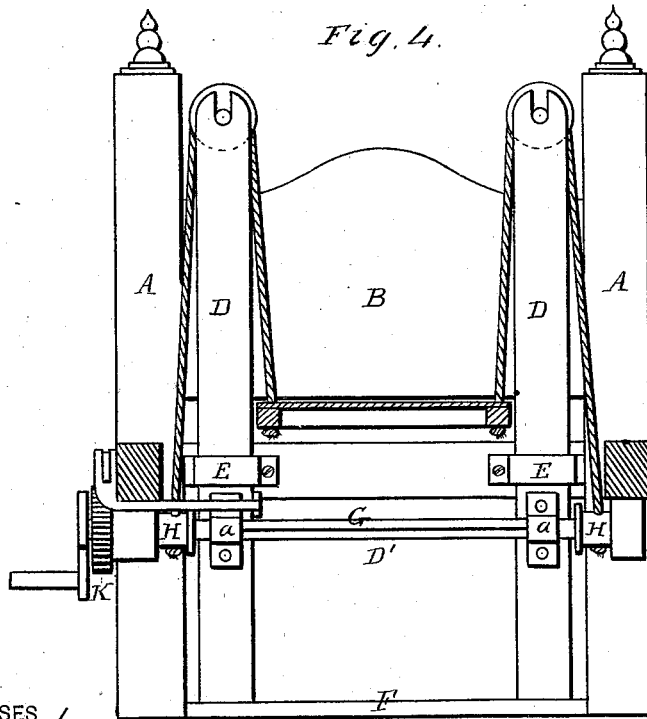


Fig. 4.

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# UNITED STATES PATENT OFFICE.

ABRAHAM KAUFFMAN, OF ANNVILLE, PENNSYLVANIA.

## IMPROVEMENT IN INVALID-BEDSTEADS.

Specification forming part of Letters Patent No. **168,503**, dated October 5, 1875; application filed July 24, 1875.

*To all whom it may concern:*

Be it known that I, ABRAHAM KAUFFMAN, of Annville, in the county of Lebanon and State of Pennsylvania, have invented a new and valuable Improvement in Invalid-Bedsteads; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figures 1 and 2 of the drawings are representations of side elevations of my bedstead, and Fig. 3 is a longitudinal vertical sectional view of the same. Fig. 4 is a transverse vertical sectional view thereof.

This invention has relation to invalid-bedsteads; and it consists in the construction and novel arrangement of the inner adjustable head and foot frames, with their winding-shafts, pawls and ratchets, the cords and pulleys, and the suspended reclining-frame, adapted for attachment to ordinary bedsteads of varying lengths, where the foot-board is made low in the common fashion, as hereinafter shown and described.

In the accompanying drawings, the letter A designates the frame of an ordinary bedstead, B the head-board and C the foot thereof. D D represent the four posts or standards forming end frames D<sup>1</sup> D<sup>2</sup>. These are designed to stand within the bed-frame, as shown, being secured thereto by suitable clips E. At or near their lower ends the supports D are connected by tie-braces F. G G indicate the winding-shafts, journaled in suitable bearings *a*, attached to the posts D and provided with the pulleys H and ratchets K. L indicates the pawls, which engage with the ratchets. These are pivoted to the ends of arms M, which are secured to the posts D and extend along the inside of the side rail of the bedstead for a certain distance, and then under the same transversely, and upward on the outside of said rail to the pivots of the pawls, which extend in the reverse direction to the ratchets. At the ends of the winding shafts

key-seats *b* are made for the attachment of the operating cranks N. S represents the stretcher, consisting of a rectangular frame, S', to which is secured the web upon which the patient rests. Cords *c* are passed through perforations in the frame, and extend upward over pulleys *d* seated in bearings in the tops of posts D, and thence downward to the pulleys H of the winding-shafts, to which they are secured.

At the foot of the stretcher-frame the side rails *m* are perforated, as indicated at *z*, for the attachment of the cord at different points. This end of the stretcher is thus enabled to be extended beyond the foot of a short bedstead, the head and foot frames D<sup>1</sup> D<sup>2</sup> being moved toward each other sufficiently to fit within the frame of such bedstead, as above set forth.

The stretcher is laid with the webbing upon the bed or mattress, and the frame well over the edge. The patient, being placed upon the webbing, is raised, when necessary, clear of the mattress, by winding the cords *c* upon the pulleys H, the keepers or pawls L and ratchets K serving to hold the stretcher, when raised, at any height required.

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

1. An invalid-bedstead attachment, consisting of the head-frame D<sup>1</sup>, the adjustable foot-frame D<sup>2</sup>, and the suspensible stretcher-frame S', having adjusting-perforations Z for the suspending-cords *c*, substantially as specified.

2. The combination, with the stretcher S and its suspending-cords *c*, of the head and foot supports D<sup>1</sup> D<sup>2</sup>, having the winding-shafts G, pulleys H and *d*, pawl-arms M, pawls L, and the braces F, connecting the feet of said supports, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ABRAHAM KAUFFMAN.

Witnesses:

GEORGE E. UPHAM,  
WALTER C. MASL.