

O. G. COSBY & G. W. MCGOVERN.

Invalid Bedsteads.

No. 158,913.

Patented Jan. 19, 1875.

Fig. 1.

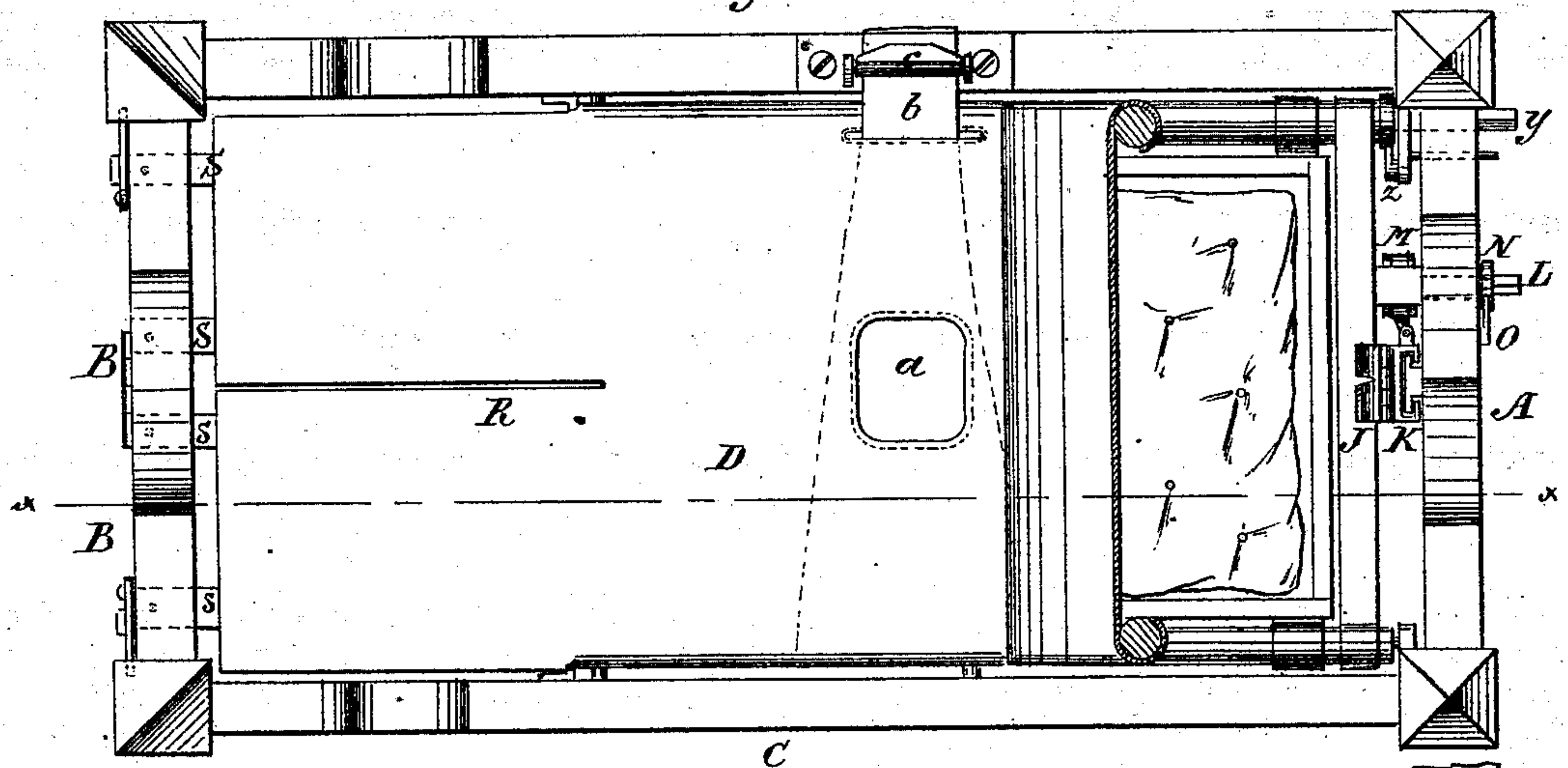


Fig. 2.

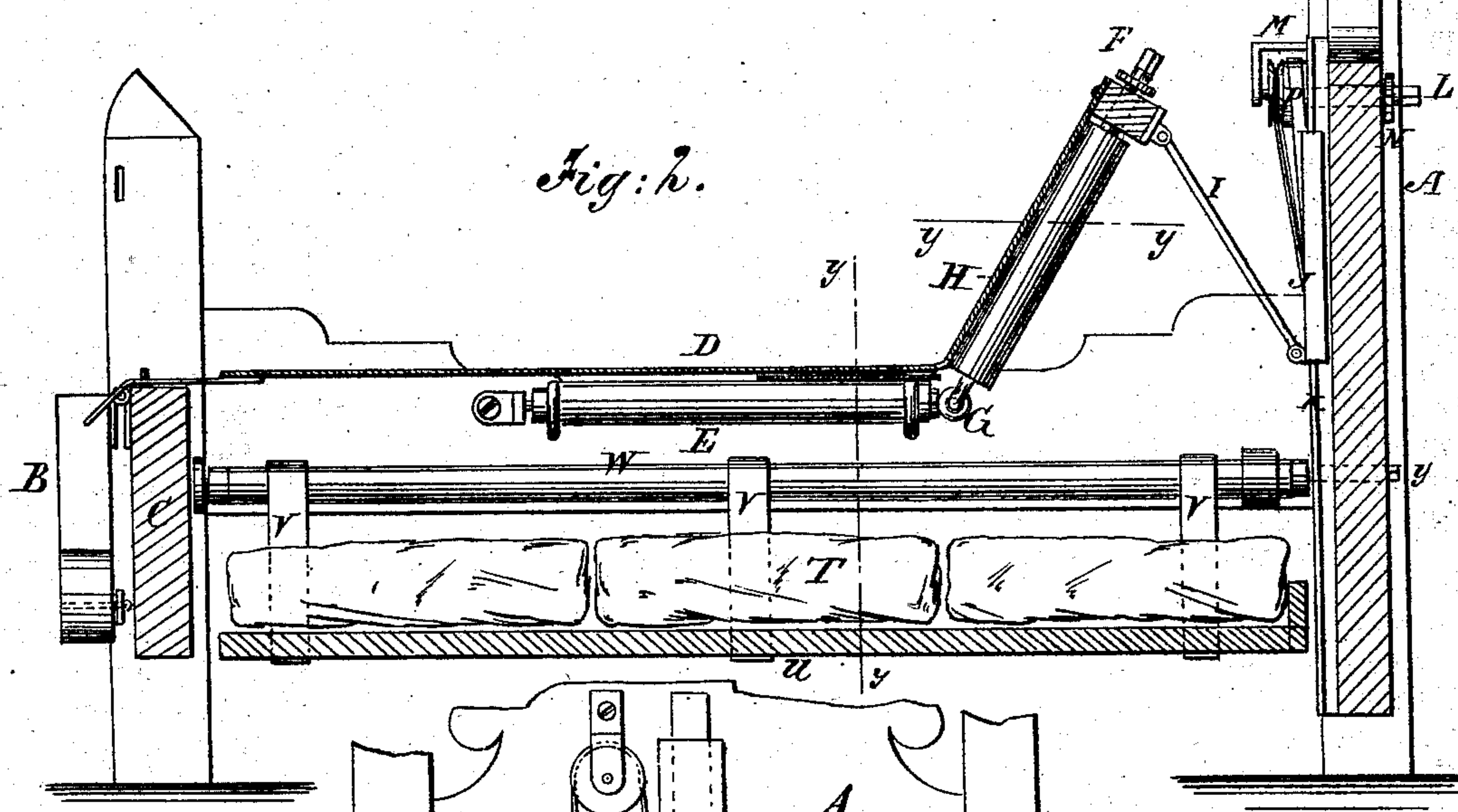
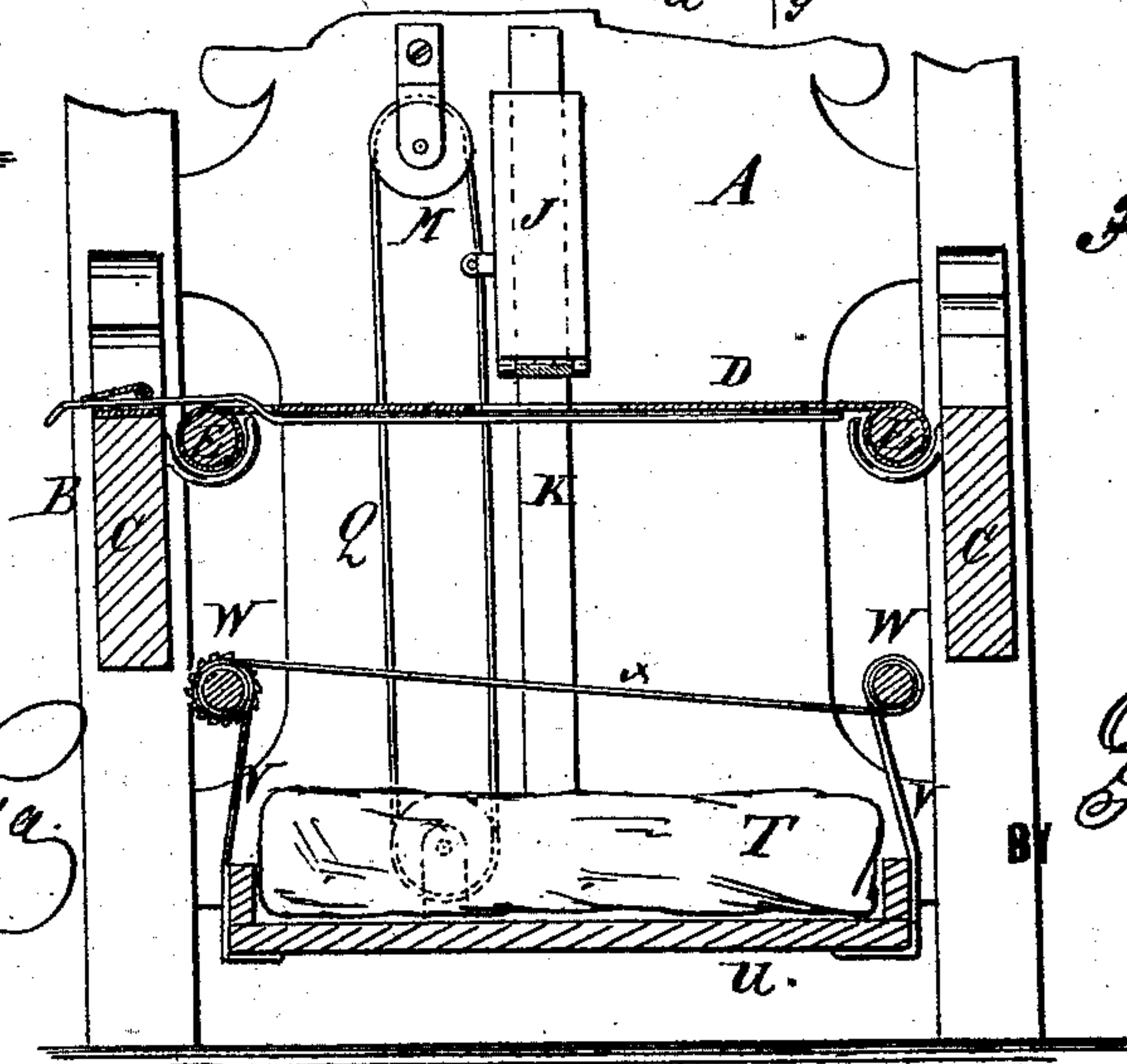


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

OSCAR G. COSBY AND GEORGE W. MCGOVERN, OF RICHMOND, VIRGINIA.

IMPROVEMENT IN INVALID-BEDSTEADS.

Specification forming part of Letters Patent No. **158,913**, dated January 19, 1875; application filed May 23, 1874.

To all whom it may concern:

Be it known that we, OSCAR G. COSBY and GEORGE W. MCGOVERN, of Richmond, in the county of Henrico and State of Virginia, have invented a new and useful Improvement in Invalid-Bedsteads, of which the following is a specification:

This invention relates to certain improvements in invalid-bedsteads, the object of which is to enhance the ease and quiet of the patient when changing his position. It consists in the combination of an endless cord, with mechanism for raising the hinged-head section, consisting of a lever-bracket, a slide, and a band and pulley, for the purpose of giving a positive and easy downward adjustment of the head-section.

In the accompanying drawings, Figure 1 is a top view of an invalid-bedstead to which my improvement is attached. Fig. 2 is a longitudinal vertical section of Fig. 1 on line *x x*. Fig. 3 is a vertical transverse section of Fig. 2 on line *y y*.

Similar letters in the different figures indicate corresponding parts.

A represents the head-board, to which the devices for elevating and depressing the head-section are attached. B is a hinged foot-board. C are the side rails, and D the stretcher, which is tightened over rollers E, slitted at R, and provided with an opening, *a*, and an apron, *b*. W is another set of rollers beneath the stretcher, from which the mattress and mattress-box T and U are suspended upon the bands or hoisting-straps V. H is the head-section, which consists of a portion of the stretcher distended upon rollers, which are hinged at G to rollers E. L is a short shaft passing through the head-board of the bedstead, and terminating on the outside in a squared stem to receive a key for winding. N is a ratchet-wheel upon said shaft, which is engaged by a pawl, O, to hold the shaft in place when wound up. Said shaft L carries

upon the inside of the head-board a band and cord pulley, M, around which passes the flexible band P and the endless cord Q, both of which are attached to a vertical slide, J, the endless cord passing around the second pulley below. The said slide J moves over a guide-bar, K, and is attached to the head-section through a lever-bracket, I, which latter is hinged to both slide and head-section. The great object to be attained in the working of the head-section of invalid-beds is to secure an easy, uniform, and positive adjustment, which can always be relied upon, and which shall be as nearly noiseless as possible. This I accomplish to great advantage by combining with the slide J and its connections an endless cord, Q, which assists the band P in elevating the head-section, but more especially gives a positive and easy downward adjustment of the head-section when lowering the same. This is an important feature in connection with the other devices shown, as frequently the slide grips and refuses to pass down from the gravity of the head-section until the band becomes very loose from being unwound, and then when it does start it falls with a jerk, the consequences of which would be disastrous to the patient. The addition of the endless cord obviates this difficulty by imparting positive downward motion to the slide as soon as the shaft is turned.

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

The combination of an endless cord, with mechanism for raising the hinged-head section of the stretcher-frame, consisting of a lever-bracket, a slide, and a band and pulley, substantially as and for the purpose described.

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Witnesses:

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