

(No Model.)

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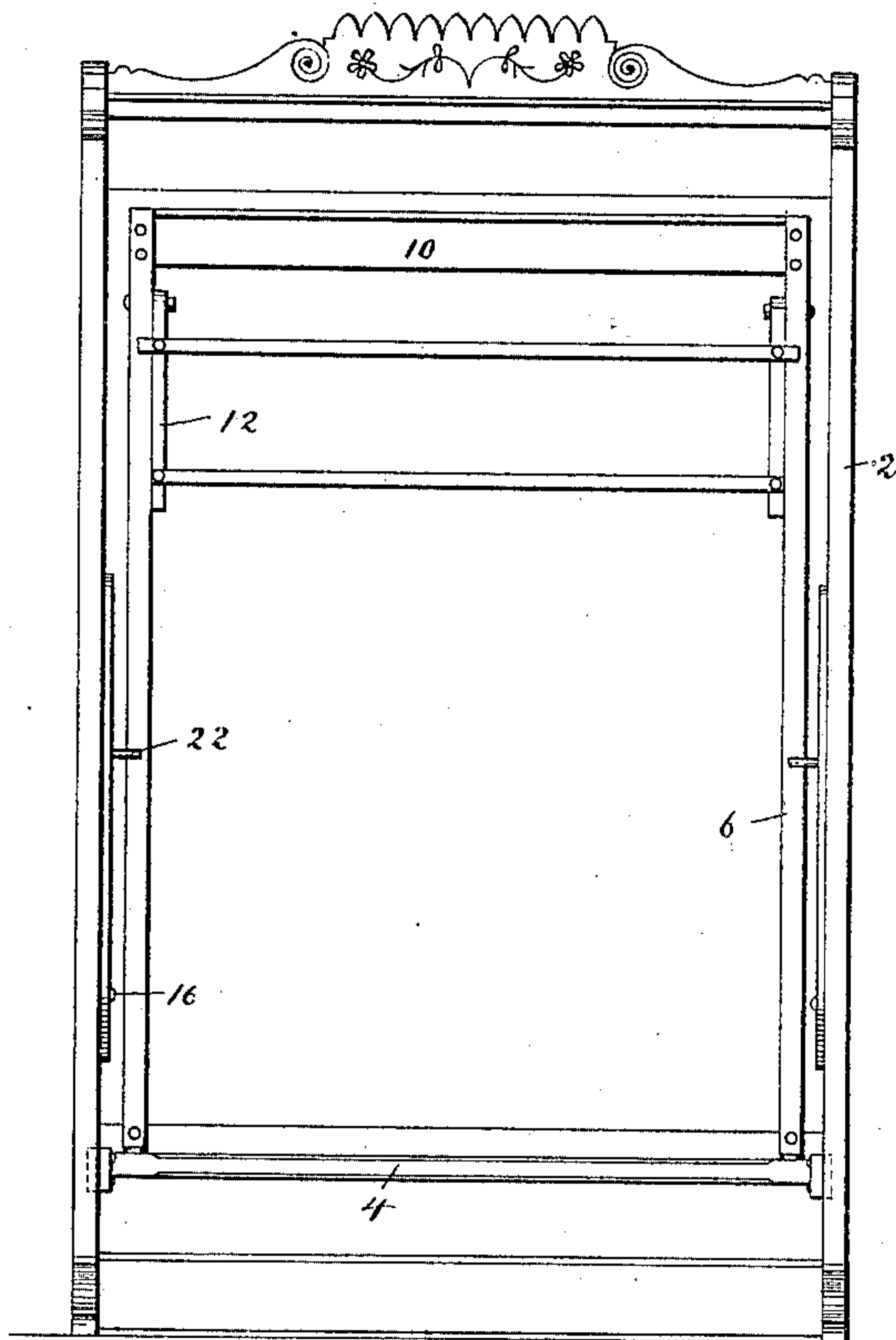
J. H. HISCOCK.

FOLDING BED.

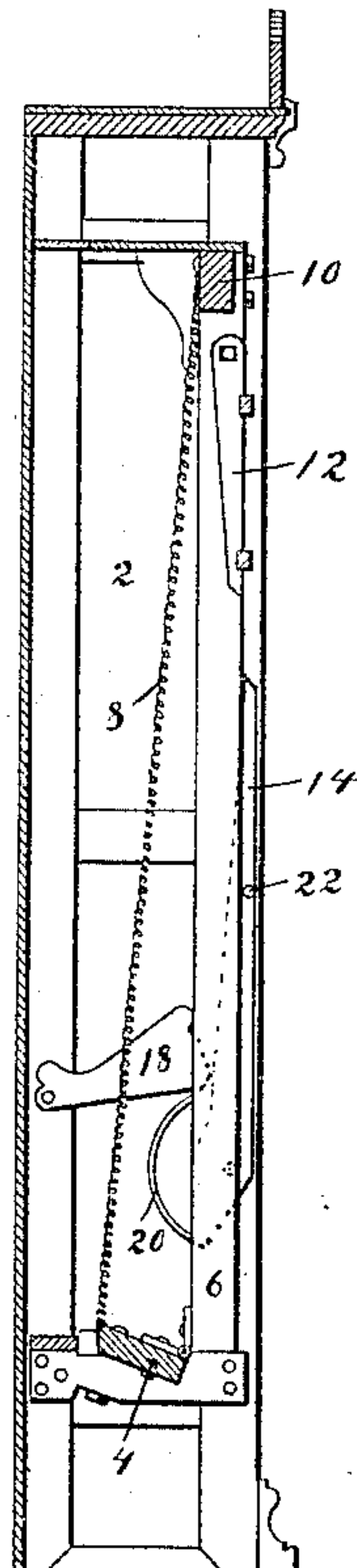
No. 391,848.

Patented Oct. 30, 1888.

*Fig. 1.*



*Fig. 2.*



Witnesses,

J. Jensen.  
A. M. Gaskell.

Inventor.

Joseph H. Hiscock.

By his Attorneys

Paul, Sanford & Merwin.

(No Model.)

2 Sheets—Sheet 2.

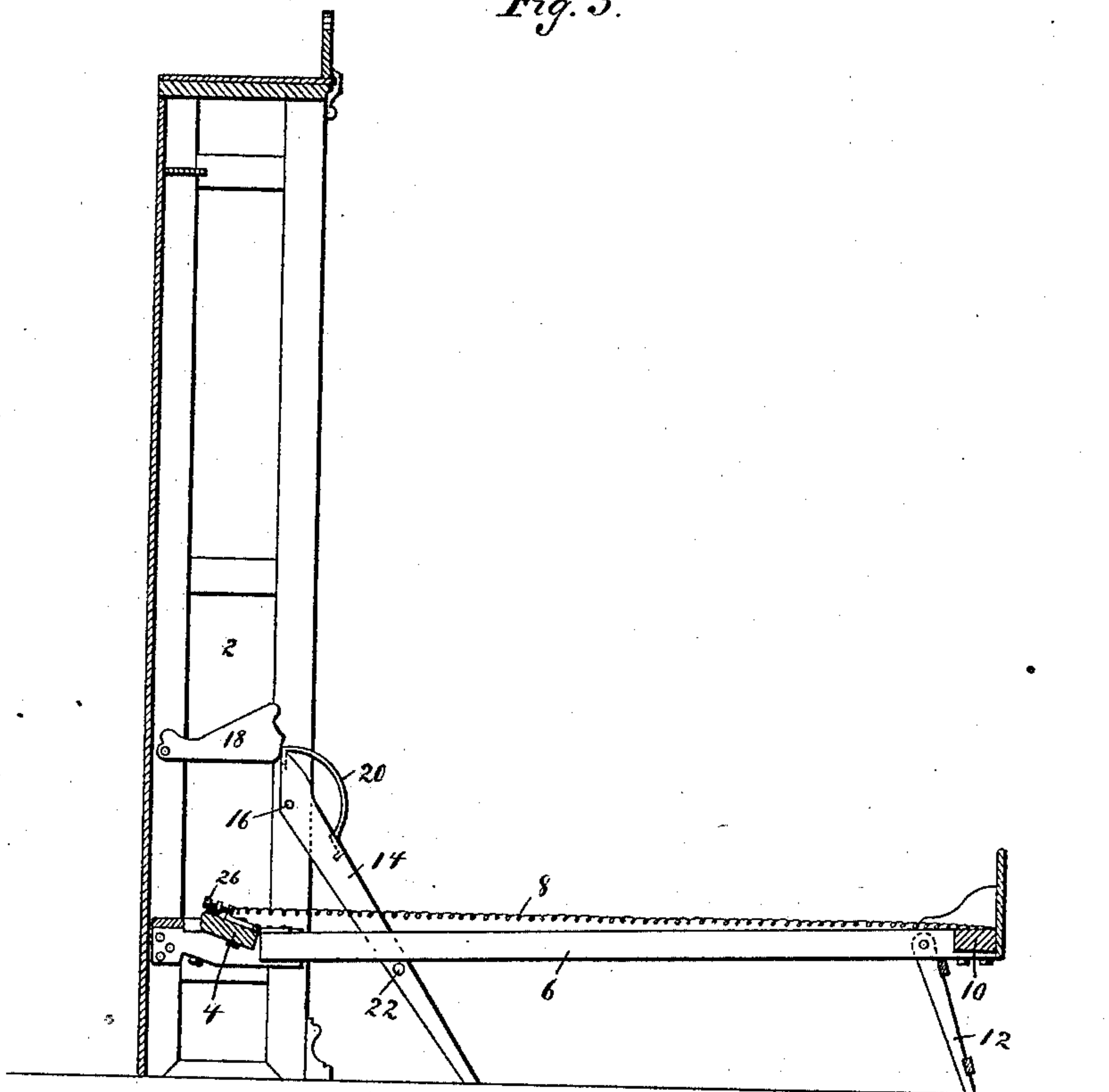
J. H. HISCOCK.

FOLDING BED.

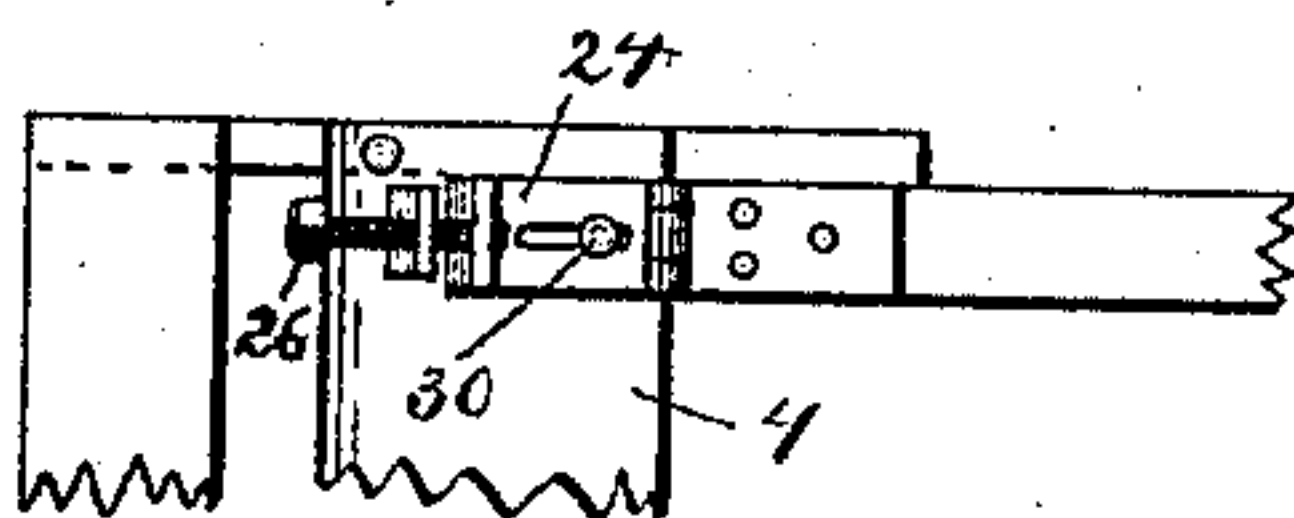
No. 391,848.

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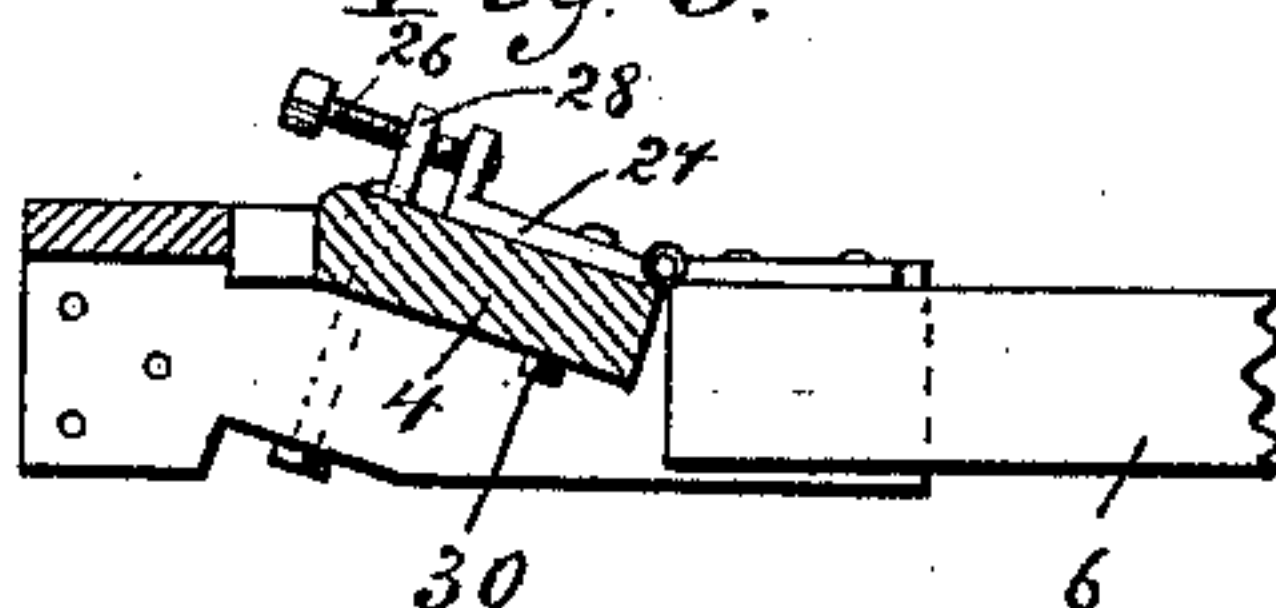
*Fig. 3.*



*Fig. 4.*



*Fig. 5.*



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# UNITED STATES PATENT OFFICE.

JOSEPH H. HISCOCK, OF MINNEAPOLIS, MINNESOTA.

## FOLDING BED.

SPECIFICATION forming part of Letters Patent No. 391,848, dated October 30, 1888.

Application filed March 12, 1888. Serial No. 266,944. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH H. HISCOCK, of Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain Improvements in Folding Beds, of which the following is a specification.

My invention relates to a bedstead in which the side rails are pivoted to an upright case or cabinet, within which they are arranged to fold.

One of the objects of my invention is to so arrange the wire mattress on the frame as to utilize the tension of the springs composing said mattress to aid in raising and folding the bed-frame into the cabinet.

Another object of my invention is to provide a brace for the lower portion of the cabinet which will be thrown into position as the bed-frame is unfolded, to prevent the cabinet from tilting forward during the operation and from being drawn forward by the spring while the bed is down or in position for use.

My invention consists, generally, in the combination and arrangement hereinafter described, and particularly pointed out in the claims.

In the drawings which form part of this specification, Figure 1 is a front elevation of a folding bed embodying my improvement. Fig. 2 is a vertical longitudinal section showing the bed in its folded position. Fig. 3 is a similar view showing the bed unfolded. Figs. 4 and 5 are details.

In the drawings, 2 represents the case or cabinet, of suitable size to receive the frame of the bed. A cross-rail, 4, is framed to the casing 2, and to this cross rail the side rails, 6, of the bed are hinged. The cross-rail 4 is preferably secured to the case in such a manner as to be held at a slight angle horizontally with the side rails, 6, as shown in Figs. 3 and 5. The wire mattress 8 is preferably secured to the cross-rail 4 and to the foot-rail 10. The side rails are preferably hinged to the front edge of the rail 4, and the wire mattress is fastened to the back edge. This arrangement, by the angularity of the rail, brings the point of suspension for the spring-mattress above the hinge, so that as the frame to which one end of the said spring-mattress is attached is thrown downward in unfolding the springs

composing the said mattress are stretched over the two end rails and brought to a horizontal position under considerable tension. The relative position of the mattress and side rails will then be substantially as shown in Fig. 3, and the tension of the springs will tend to draw the free end of the bed-frame or foot-rail 10 upward and cause it to be folded into the case. It will be understood that this tension is not sufficient when the rails are in this position to overcome all the weight of the frame and cause it to fold, but that it will assist in so doing and will substantially counterbalance the weight of the frame, and after it has been partially lifted by hand will complete the folding movement.

Suitable legs, 12, are preferably pivoted to the side rails near the foot, which support the lower end of the frame. 14 are braces arranged to bear upon the floor in front of the case, and preferably secured to the case or cabinet at each side by a suitable pivot or bolt, 16, about which the said brace swings, and when the bed-frame is folded into the case these braces may also be folded, as shown in Fig. 2. A pawl or stop, 18, is preferably pivoted to the case 2, and is arranged to fall back of the brace when its end is upon the floor and hold it firmly in this position. A curved support, 20, is preferably formed of wire and attached to the upper portion of the brace, extending outward from the upper extremity concentric with the pivot 16. The purpose of this support is to hold up the pawl 18 as the brace is raised, and also to keep the said pawl in position to fall behind the brace when the said brace is lowered. A pin, 22, is preferably located upon the brace, which extends inwardly and is brought in contact with the side rail of the bed. When the bed-frame is folded, the braces may be released from the pawls 18 and thrown up about the pivot 16, and will stand within the case and with the pins 22 bearing against the lower side of the side rail. When the bed-frame is thrown down, the rail, being in contact with this pin 22, will cause the brace to be forced out, and after it has passed the center its gravity will cause it to immediately fall until the outer end strikes the floor, when the pawl 18 engages its upper extremity, thus forming a brace for the



cabinet, to prevent it from tilting forward as the bed is lowered or unfolded.

I prefer to provide a means for tightening the spring of the mattress, which I do by making the hinge 24 movable upon the cross-rail 4.

A screw-threaded spindle, 26, is swiveled in a lug on the hinge and passes through a screw-threaded opening in the boss 28, which is fastened to the cross-rail 4. A slot is preferably provided in the hinge 24, and a bolt, 30, passes through the said slot, by which it is secured to said rail. By turning the screw-threaded spindle the hinge is moved upon the rail, and the side rails are lengthened or shortened and more or less tension is brought upon the mattress.

I claim as my invention—

1. In a folding bedstead, the combination, with the case or cabinet, of the cross-rail 4, fastened to said cabinet, the side rails, 6, hinged to the front edge of said cross-rail, the wire mattress 8, having its upper extremity secured to the back edge of said rail 4, the foot-rail 10, supporting the opposite extremity of the mattress, and the slotted hinges securing the side rails to the cross-rail 4 and provided with the adjusting screws 26, whereby the tension

on the mattress may be increased, substantially as described.

2. In a folding bedstead, the combination, with the case or cabinet and the frame hinged thereto, of the pivoted braces 14, secured to said cabinet and extending forward and outward therefrom, and the pawls 18, pivoted to the cabinet and engaging the upper extremity of the braces, to hold them in position and prevent the cabinet from tilting forward, substantially as described.

3. The combination, with the cabinet 2, of the rail 4, secured therein, the frame hinged to the lower edge of said rail, the mattress secured to the outer end of said frame and to said rail 4, whereby said mattress is stretched as the frame is lowered, the braces 14, pivoted to the cabinet 2 and provided with the pins 22, adapted to be engaged by said frame, and the pawls 18, adapted to engage said braces, substantially as described.

In testimony whereof I have hereunto set my hand this 6th day of March, 1888.

JOSEPH H. HISCOCK.

In presence of—

R. H. SANFORD,  
A. M. GASKELL.