

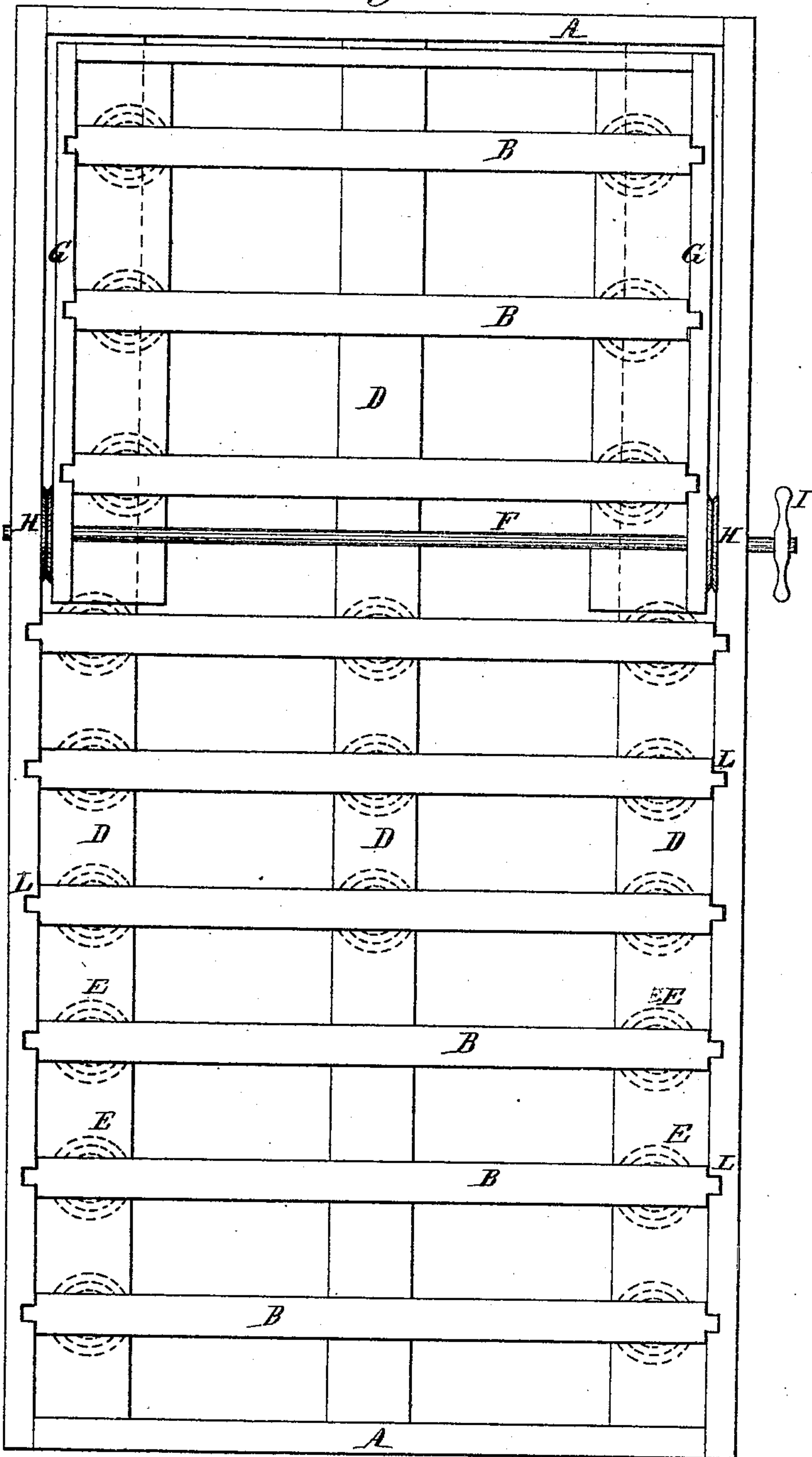
C. B. SPENCER.

Improvement in Bed-Bottoms.

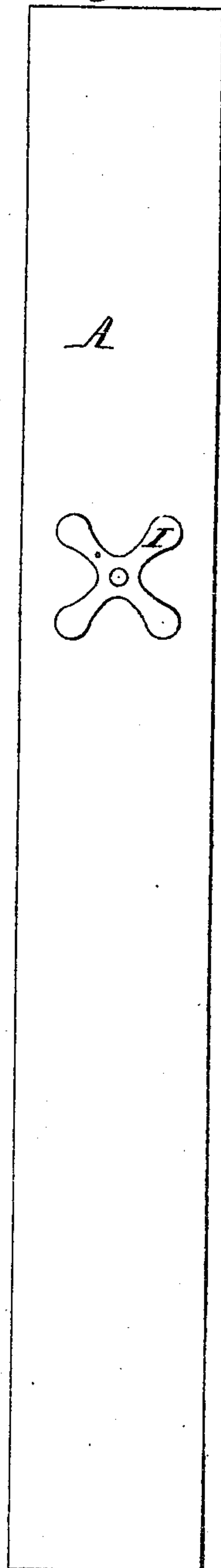
No. 131,034.

Patented Sep. 3, 1872.

*Fig. 1.*



*Fig. 2.*



WITNESSES.

INVENTOR.

*C. W. Crosby.*  
*F. B. Larpentem.*

*Charles B. Spencer.*

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Fig. 3.

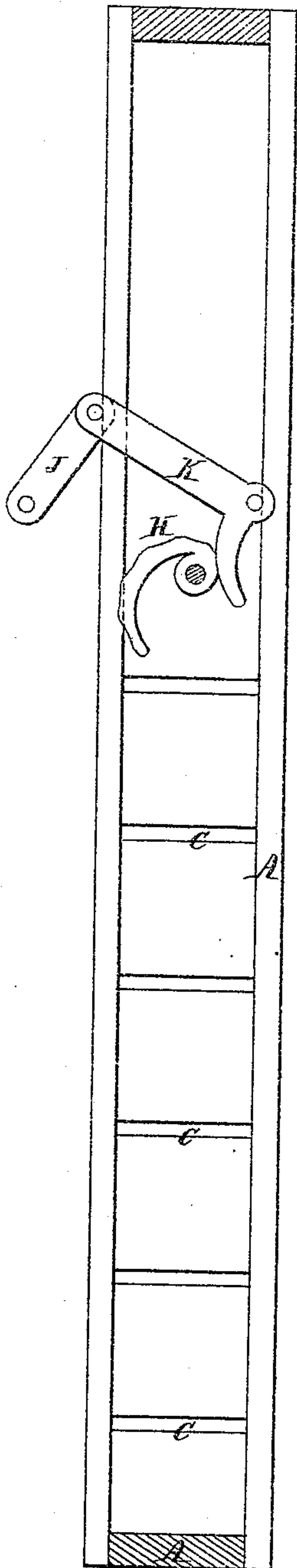


Fig. 4.

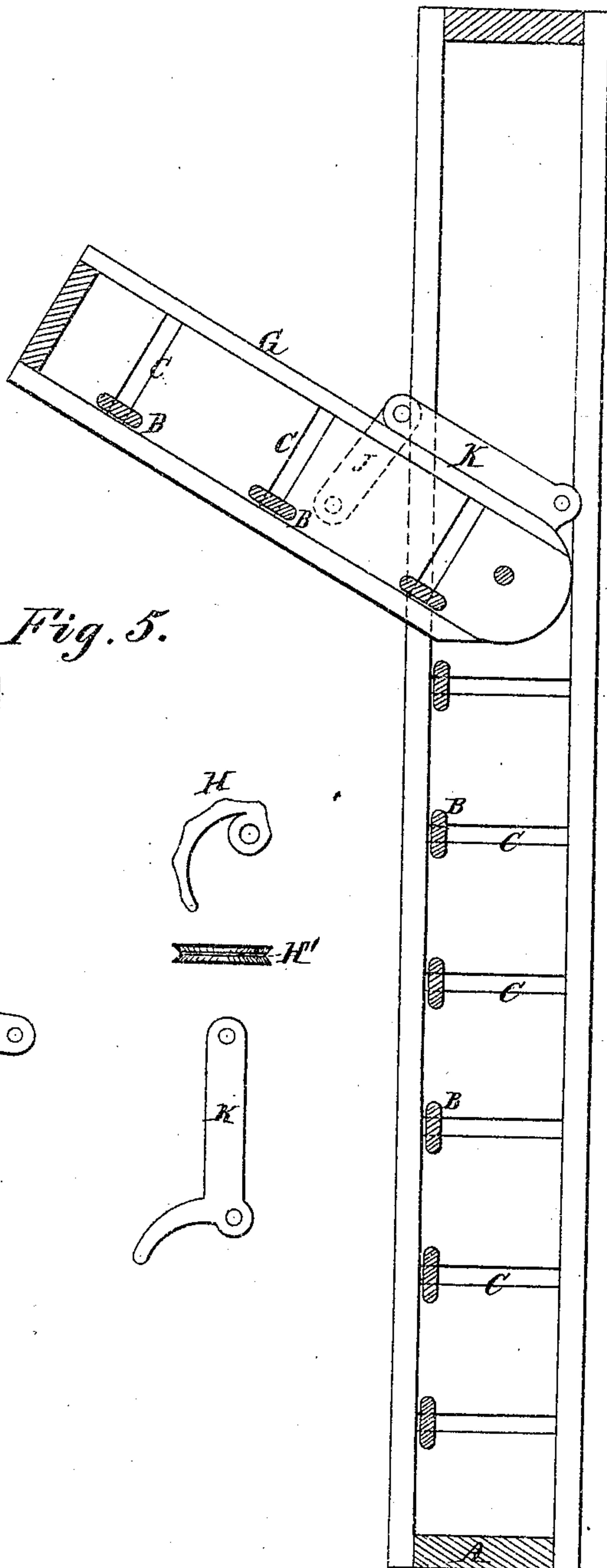
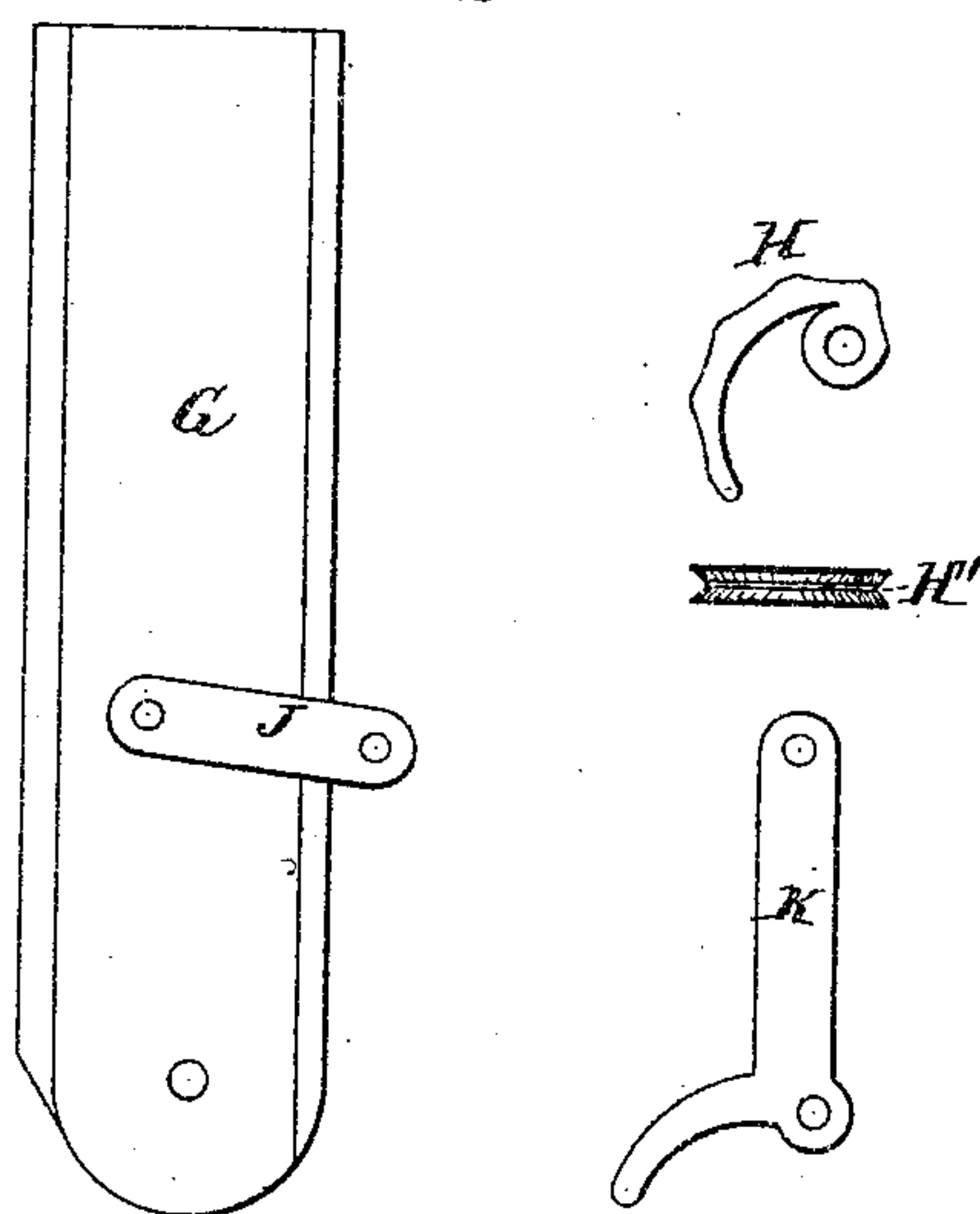


Fig. 5.



WITNESSES.

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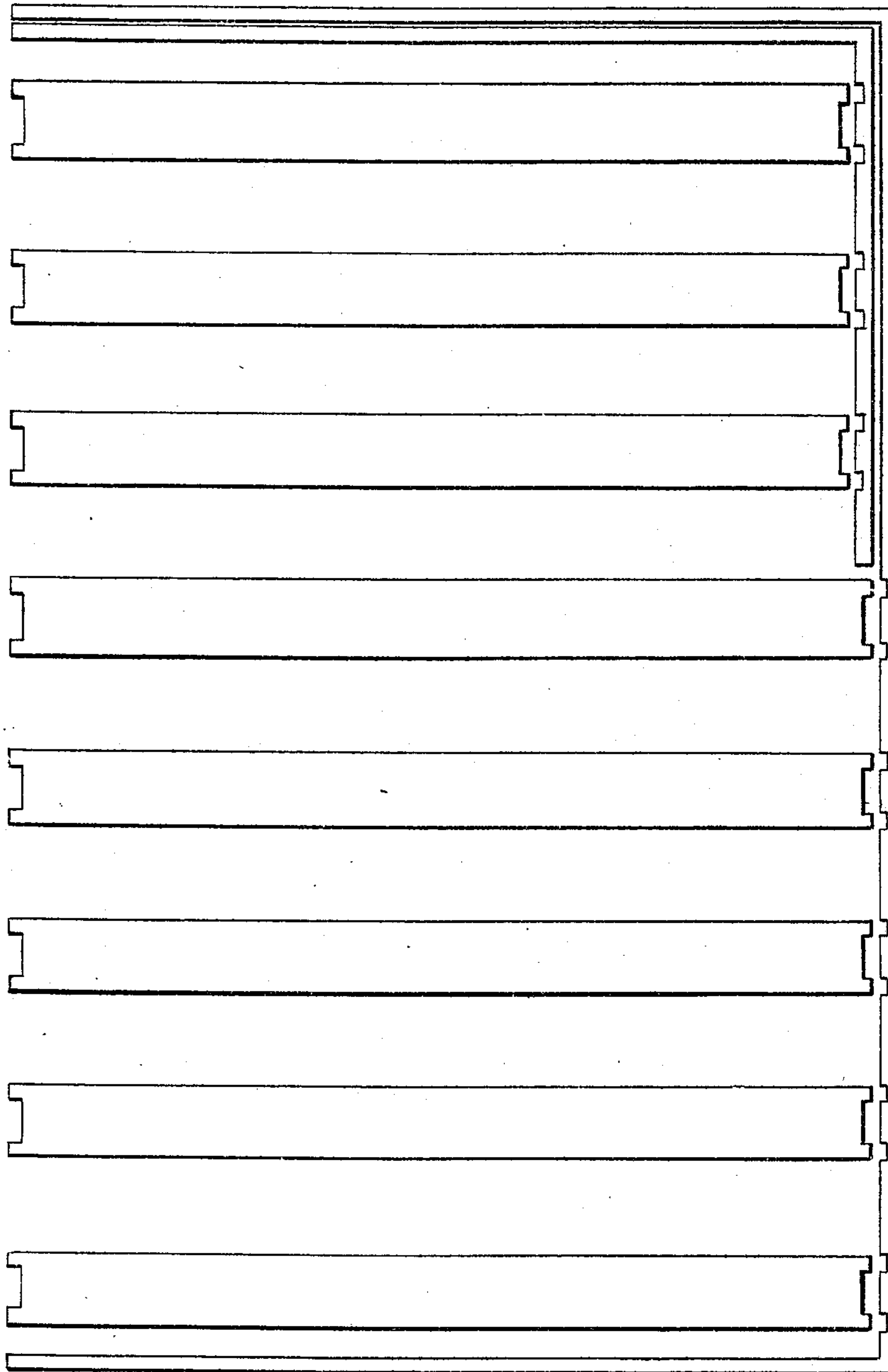
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*Fig 6*



Witnesses:

*C. W. Crosby*  
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Inventor:

*Charles B. Spencer.*



# UNITED STATES PATENT OFFICE.

CHARLES B. SPENCER, OF HASTINGS, MINNESOTA.

## IMPROVEMENT IN BED-BOTTOMS.

Specification forming part of Letters Patent No. 131,034, dated September 3, 1872.

I, CHARLES B. SPENCER, of Hastings, in the county of Dakota and State of Minnesota, have invented certain Improvements in Bed-Bottoms, of which the following is a specification:

My invention relates to the combination of a spoke-wheel with rotary cams and rod operating on the lever, so as to raise and lower the head part of a bed-bottom, which may be done by the person lying on the same without the help of an assistant, and to adjust it to any position desired, as hereinafter described.

### *Description of the Accompanying Drawing.*

Figure 1 is a plan view of the bed-bottom, showing the slats, springs, adjustable head part, rod, cams, spoke-wheel, and the bed-strips upon which the spiral springs rest. Fig. 2 is an outside view of one of the side rails, showing the spoke-wheel by which the rod and cams are turned, for the purpose of raising and lowering the head part of the bed-bottom. Fig. 3 is an inside view of one of the side rails, showing the operation of the rotary cam upon the lever. Fig. 4 is an inside view of one of the side rails, showing the grooves in the side in which the slats run, and a sectional view of the slats; also the head part or section, which is adjustable, marked G. Fig. 5 is an outside view of the head part or section, showing the connection of the lever with the same, by which the head part is raised or lowered; also detail views of the rotary, grooved, serpentine cams, and the lever that operates thereon. Fig. 6 shows another form of the slats, and with two grooves in the side rails for the end of each slat, with the tongues on the outside edge of the slat to prevent the clothes from being caught by the shoulder on the slat.

### *General Description.*

A in Figure 1 is the frame of the bed-bottom, embodying my invention. B represents the slats with tongues on the ends to fit the grooves in the side rails. C in Figs. 3 and 4 represents the grooves in the sides of the rails, in which the slats play up and down. D represents the

bed-strips, shown by dotted lines, upon which the spiral springs are set. E represents the spiral springs, shown by dotted lines. F represents the rotary rod, which passes through the side rails and the adjustable head part, upon which the head part swings, and to which the rotary cams are attached. G G represent the two styles, which swing upon the rotary rods. H H represent the two rotary-grooved serpentine stop-cams, which are attached to the rotary rod F. I is the spoke-wheel, by which the rotary rod F is turned, shown in Fig. 2. H in Figs. 3 and 5 represents the rotary grooved serpentine cams, fitting and operating on the lever K. J represents the arm which connects the lever K with the head part G. L in Fig. 1 is a view of the tongue on the slats. C in Figs. 3 and 4 represents the grooves in the side rails, in which the slats play up and down. Fig. 4 is a side view of the adjustable head part G, partly raised. K is the lever. J is the connection, shown by dotted lines in Fig. 4, attached to the outside of the head part G. The lever K, the connection J, and the rotary cam H all work between the inside of the side rail, and the outside of the rail of the head part G. H represents the cam, scalloped or serpentine, to fit the lever K, so as to prevent it from slipping. H' represents the grooves in the edge of the cam H, in which the lever K works and is kept in place, or the edge of the lever K may be grooved and the edge of the cam H rounded.

### *Claim.*

I claim as my invention—

In combination with the side rails of a bed-bottom, the rod F bearing spoke-wheel I, the serpentine grooved cams H, the lever K, connecting-arm J, and adjustable head-frame G, all constructed and operated substantially as described.

CHARLES B. SPENCER.

Witnesses:

C. W. CROSBY,  
W. MARTIN.