

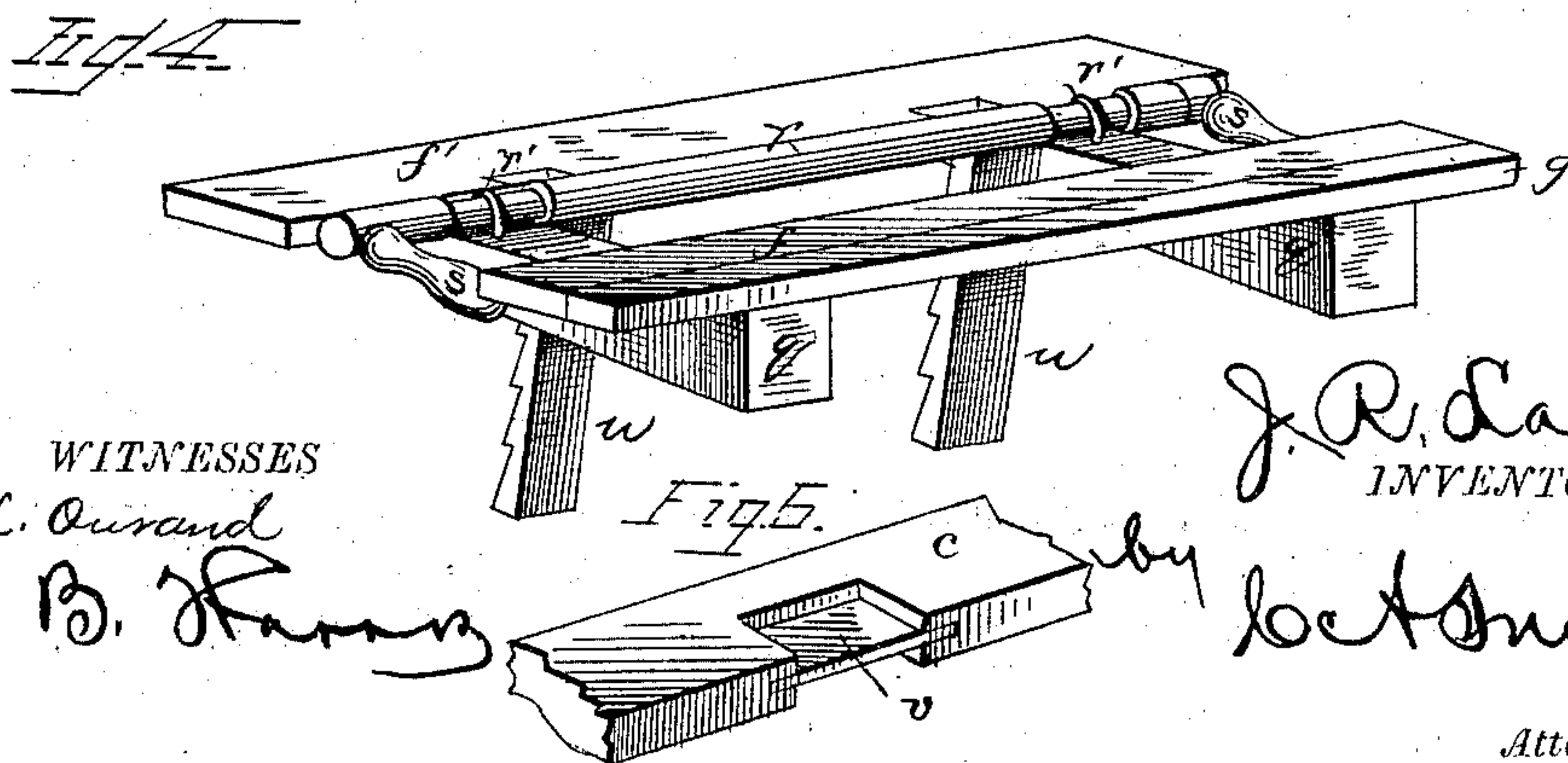
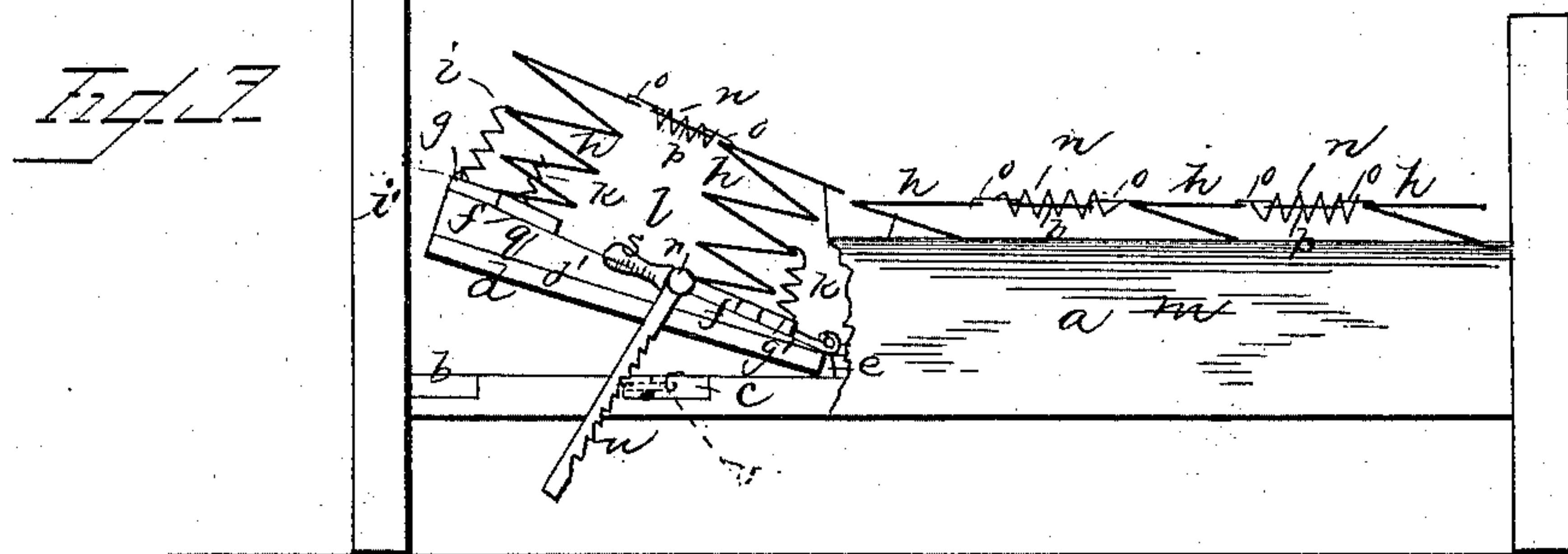
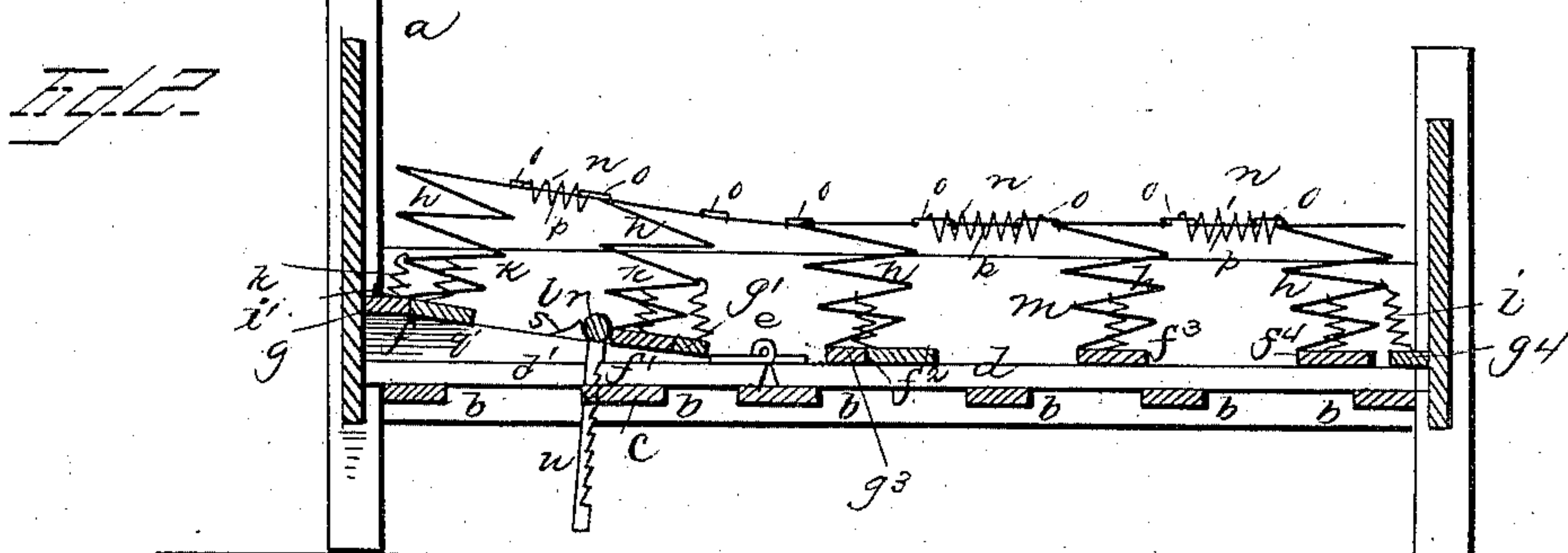
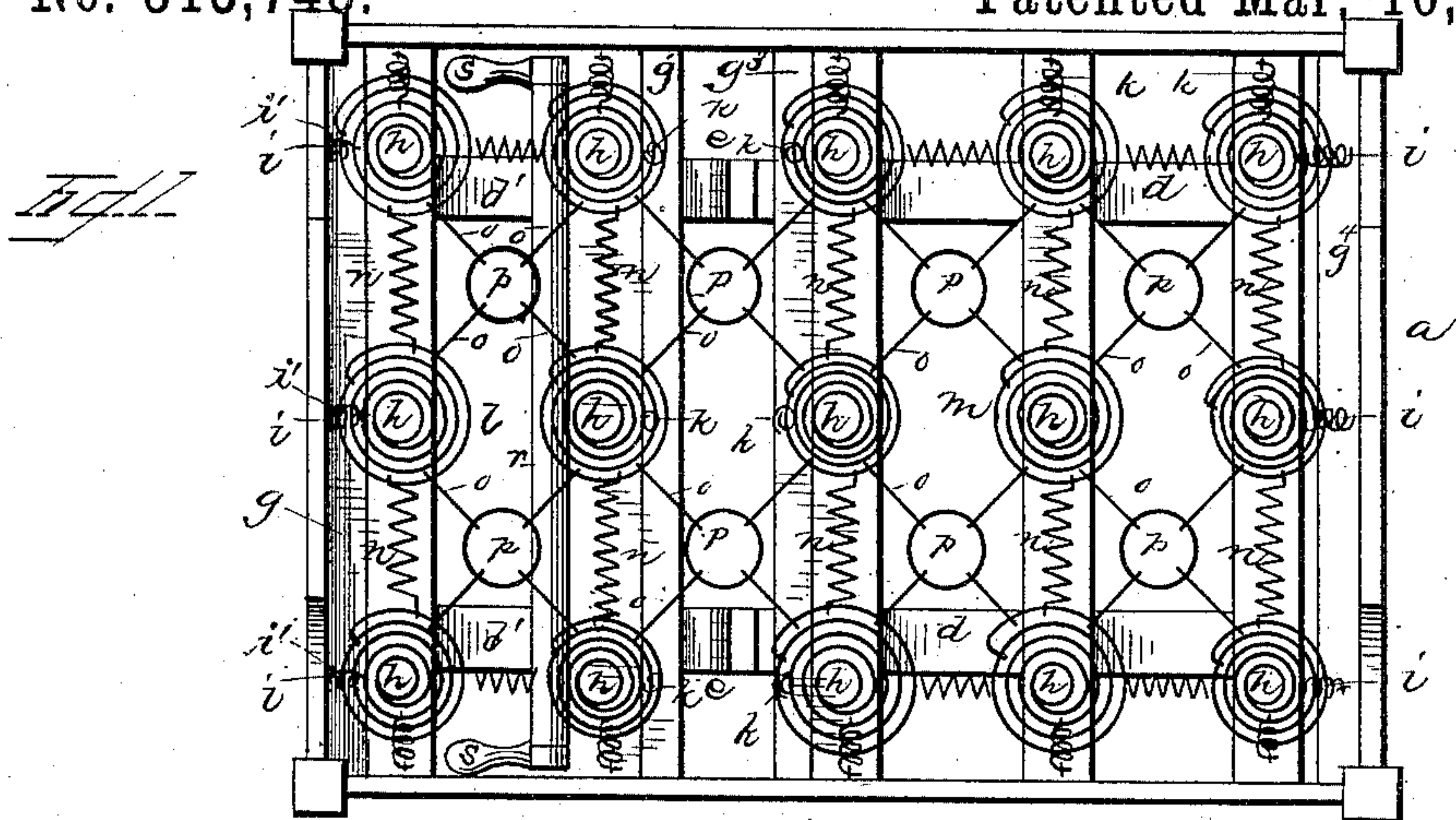
(No Model.)

J. R. LARIEW.

HEAD SECTION.

No. 313,743.

Patented Mar. 10, 1885.



WITNESSES

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# UNITED STATES PATENT OFFICE.

JOHN R. LARIEW, OF ELMIRA, NEW YORK.

## HEAD-SECTION.

SPECIFICATION forming part of Letters Patent No. 313,743, dated March 10, 1885.

Application filed February 6, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN R. LARIEW, a citizen of the United States, residing at Elmira, in the county of Chemung and State of New York, have invented a new and useful Improvement in Head-Sections, of which the following is a specification, reference being had to the accompanying drawings.

Figure 1 is a plan view of a bed-bottom embodying my improvements. Fig. 2 is a vertical longitudinal section of the bed-bottom showing it in its normal position on the bed-slats. Fig. 3 is a side elevation showing the head-rest in an elevated position, one of the side rails of the bedstead being broken away to show the ratchet-arms; and Fig. 4 is a detail view of the detent-slat of the bedstead. Fig. 5 is a detail perspective view showing a section of the detent-slat, one notch, and one of the detent-plates.

This invention has relation to invalid-bed bottoms; and it consists in the construction and novel arrangement of parts, as will be hereinafter fully described, and particularly pointed out in the claims appended.

Referring by letter to the accompanying drawings, *a* designates the bedstead, provided with the ordinary wood slats, *b*, and a detent-slat, *c*, hereinafter explained.

*d d* indicate the longitudinal slats of the bed-bottom, which are hinged at *e e*, so that the head portions may be turned up and supported at an incline, as described further on. The main transverse slats of the bed-bottom are designated by *f f' f<sup>2</sup> f<sup>3</sup> f<sup>4</sup>*, commencing at the head of the bed-bottom. Auxiliary narrow slats *g g' g<sup>3</sup> g<sup>4</sup>* are provided for the slats *f*, *f'*, *f<sup>2</sup>*, and *f<sup>4</sup>*, and are located, as shown, adjacent to said main slats, and are suitably secured to the longitudinal sectional slats *d d*. The main slats of the bed-bottom are provided with coil-springs *h*, of any approved construction, secured to said slats by staples, and braced from one of their intermediate coils by a spiral brace, *i*, connected therewith and to a staple, *i'*, in the main slat. These spiral braces *i* are used only at the end springs *h*, the intermediate springs *h* being connected to each other and to the end springs in a manner explained hereinafter. Where the nar-

row auxiliary slats *g g' g<sup>3</sup> g<sup>4</sup>* are employed, all of the springs are strengthened by additional spiral braces, *k*, attached to an intermediate coil of the springs and to the auxiliary slats, as shown. The outside springs *h* of both sections *l* and *m* of the bed-bottom are connected by spiral wires *n*, engaging their top coils, and the entire set of springs composing the spring portion of the bed-bottom are connected in fours by hook-rods *o* and metal rings *p*, one end of each rod *o* engaging the upper coil of a spring, *h*, and the other end engaging a ring, *p*, as shown. Where the hinges *e e* are located, the auxiliary slats *g' g<sup>3</sup>* are placed between the main slats *f' f<sup>2</sup>*; but the auxiliary end slats, *g* and *g<sup>4</sup>*, are placed outside of the main slats *f f<sup>4</sup>*. The section *l* of the bed-bottom is shorter than the section *m*, and forms the head-rest and back-rest for the invalid. The sections *d' d'* of the longitudinal slats *d d* are provided with inclined strips *q q* on their upper faces to give the head of the bed-bottom a slight elevation above the section *m* of the bed-bottom, and at the same time imparts the proper incline to the head-section when in its normal position. A transverse shaft, *r*, is supported in bearings *r' r'* on the inclined strips *q q*, near the upper edge of the main slat *f'*, and is provided at each end with a weighted handle, *s s*, extending on an upward incline toward the head of the bed, as shown. Immediately of its ends and between its bearings *r' r'* this transverse shaft *r* is provided with two ratchet-arms, *u u*, rigidly secured to said shaft *r* at right angles to the weighted handles *s s*, parallel with each other and inclining downwardly and toward the head of the bed. These ratchet-arms *u u* engage detent-plates in the detent-slat *c*, said detent-plates *v v* being secured in notches in said slat, as shown. By lifting upon the upper end of the head-rest *l* it may be raised to the desired incline, the weighted handles on the transverse shaft *r* keeping the ratchet-arms *u u* in engagement with the detent-plates *v v*, and when the lifting ceases the ratchet-arms *u u* will engage the detent-plates by means of their teeth, and will hold the head and back rest in the position to which it has been adjusted. To lower the head and back rest, it should be lifted upon



slightly and the weighted handles *s s* turned upward (turning one turns both) to lift the ratchet-teeth out of engagement with the detent-plates, at which time the head and back rest may be adjusted to a lower incline or let down into its normal position. A bed-bottom of this construction may be cheaply made, is light and durable, and easily operated. It is positive in its adjustments, and is not likely to get out of order, and at the same time is yielding and adds greatly to the comfort of the occupant of the bed.

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

1. The combination, with the body-section of the bed-bottom, of the hinged head and back rest section, the transverse rock-shaft journaled to the head and back rest section, and having operating handles or arms at its ends, the ratchet-arms provided on the rock-shaft near the ends thereof, and the detent-slat, as set forth.

2. The combination, with the body-section of the bed-bottom, of the hinged head and back rest section, the transverse rock-shaft journaled thereto, the ratchet-arms provided on

the rock-shaft near the ends, the detent-slat, and weighted arms or handles projecting out from the ends of the rock-shaft at right angles to the ratchet-arms, whereby the weight of the arms or handles serves to force the ratchet-arms into engagement with the slot, as and for the purpose set forth.

3. The combination, with the body-section of the bed-bottom, of the hinged head and back rest section, comprising the inclined strips *q*, with slats fixed thereto, the transverse rock-shaft *r*, journaled to the upper face of the strips, and having its ends beyond the strips provided with weighted operating handles or arms *s*, the ratchet-arms *u*, attached to the rock-shaft within the strips, at right angles to the handles or arms *s*, and the detent-slat *c*, arranged, combined, and operating as and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JOHN R. LARIEW.

Witnesses:

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HENRY R. LORING.