

(No Model.)

H. W. GROEBL.
ADJUSTABLE DESK AND SEAT.

No. 303,002.

Patented Aug. 5, 1884.

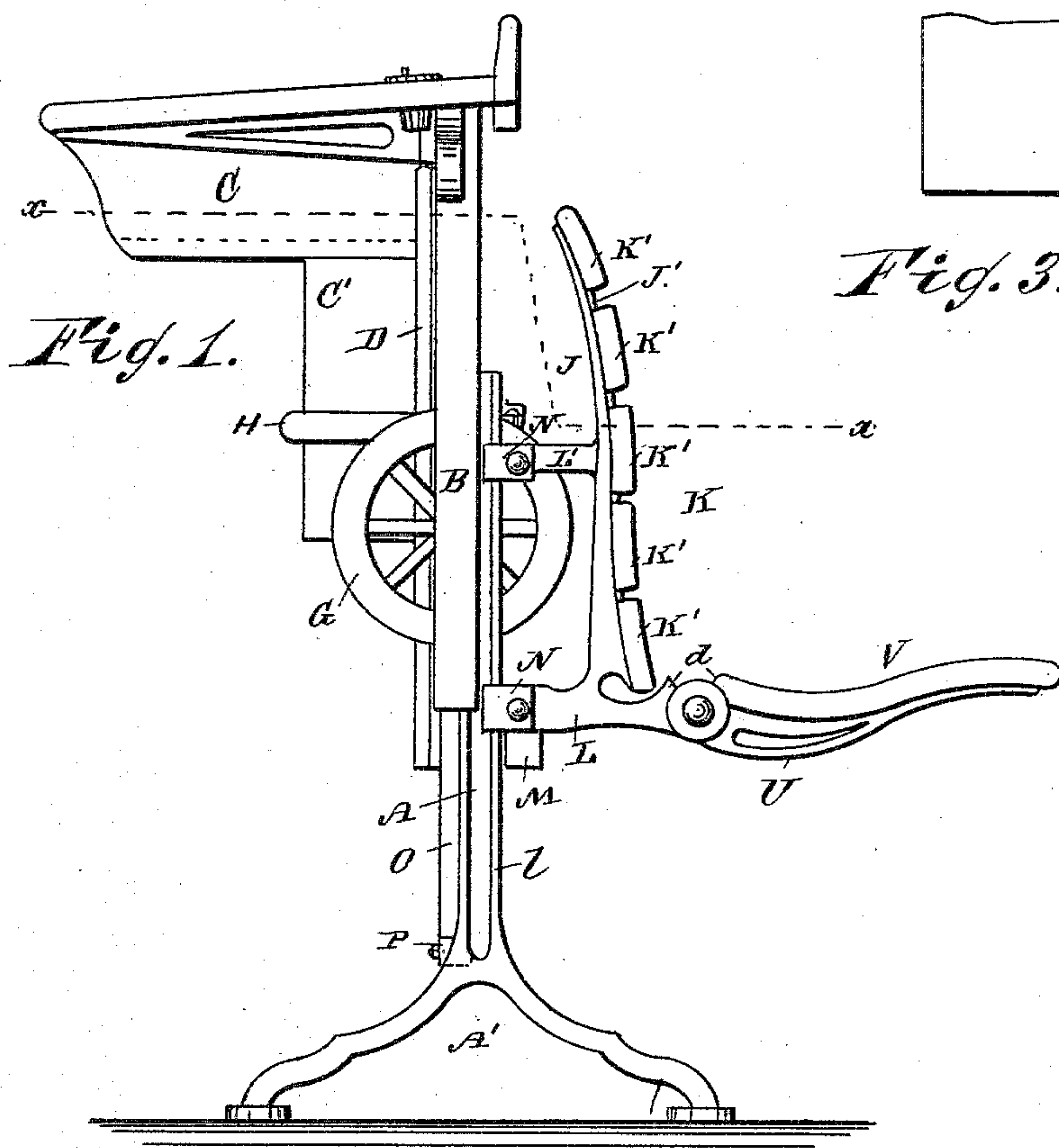


Fig. 3.

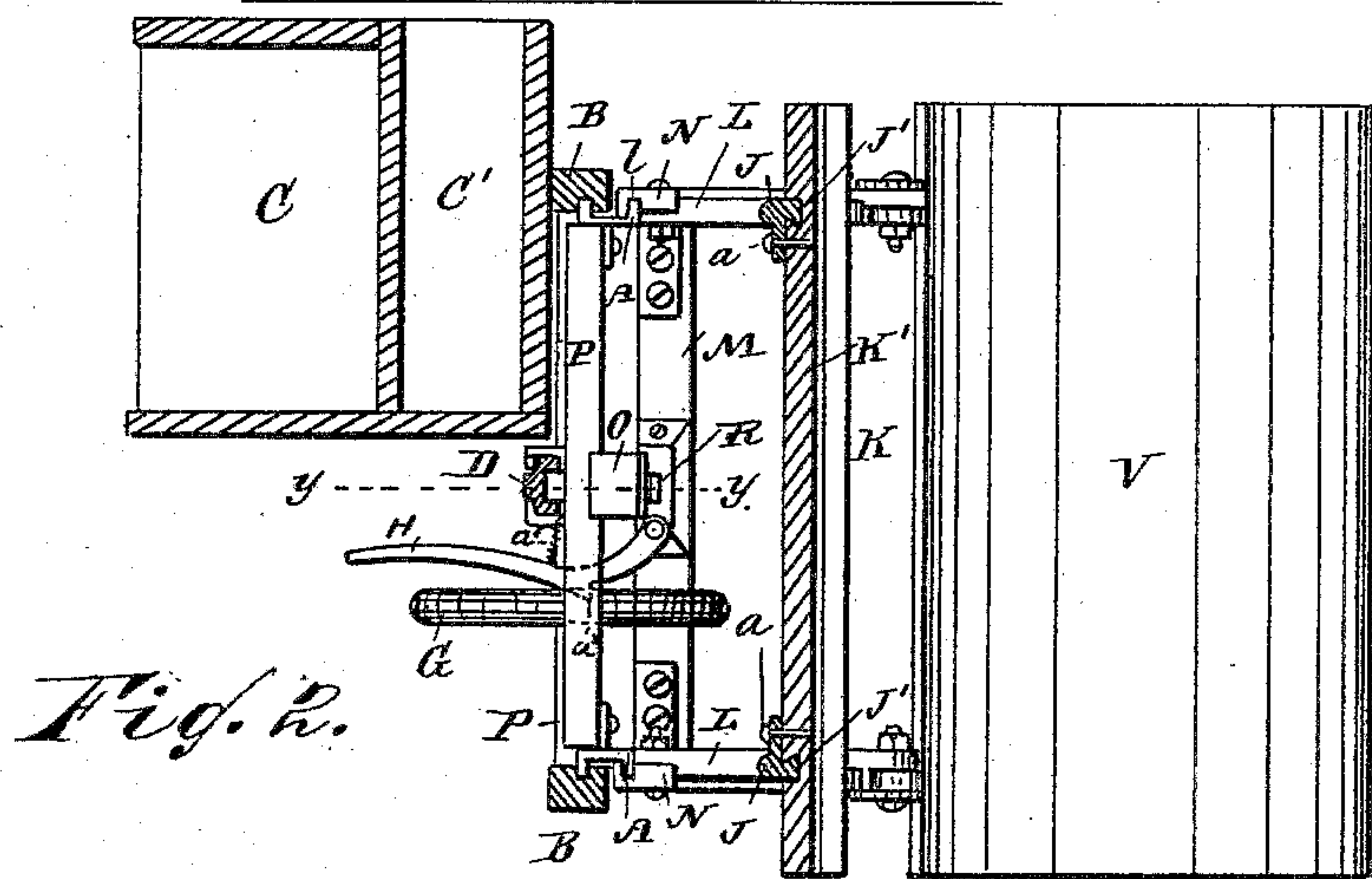
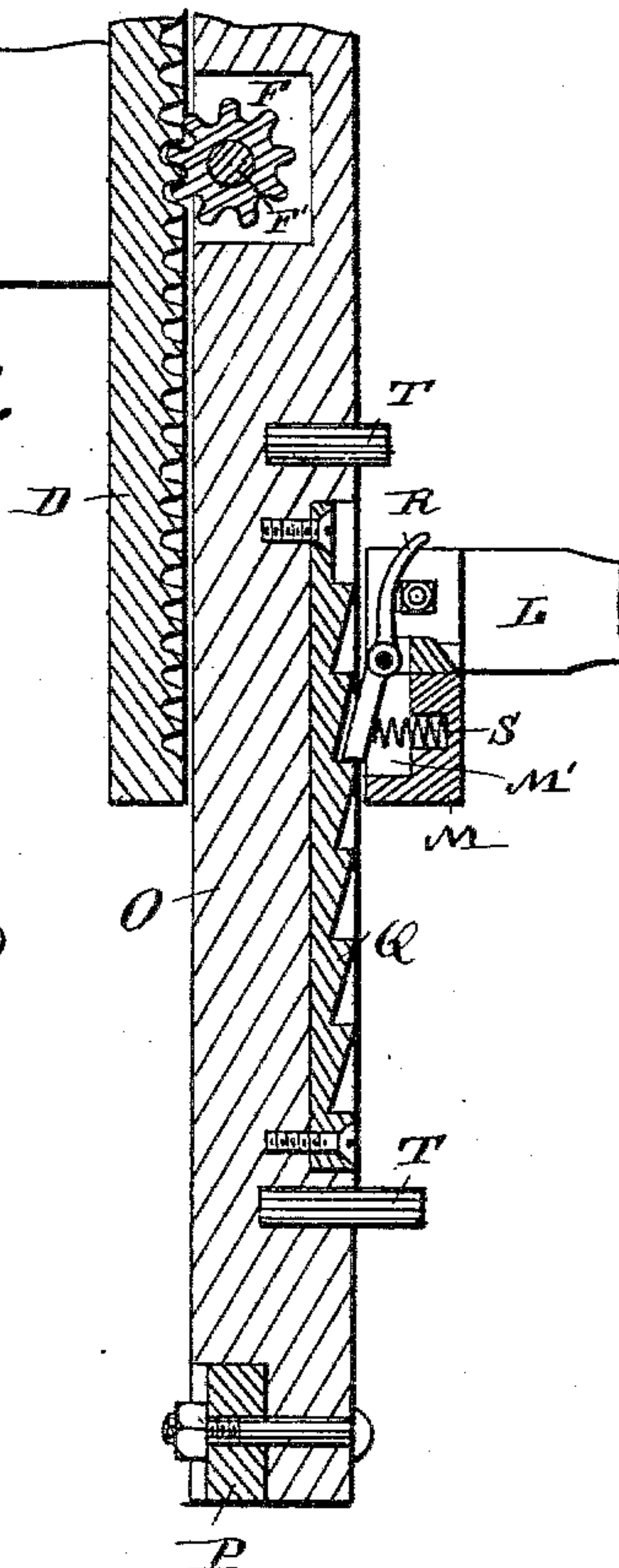


Fig. 2.

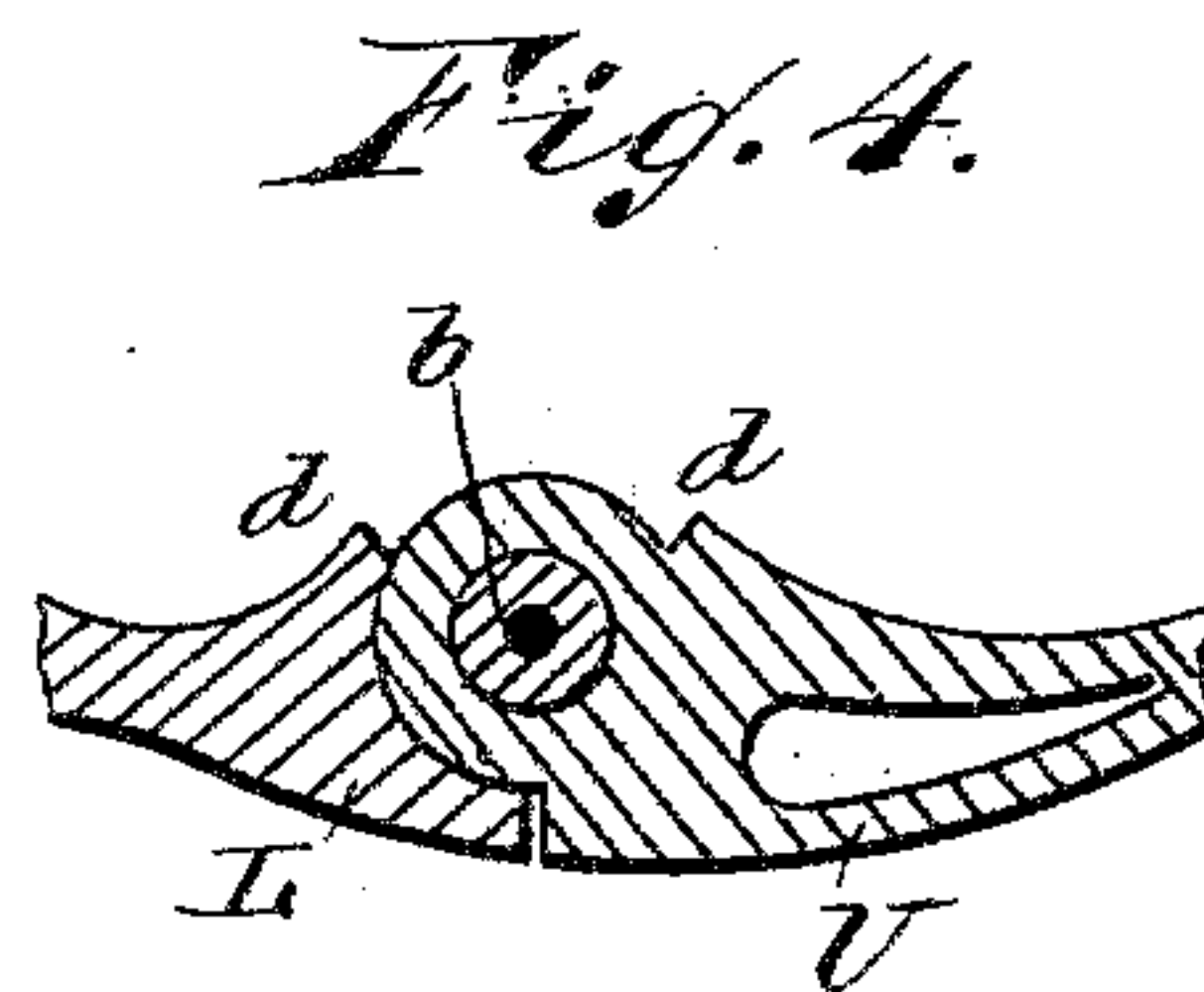
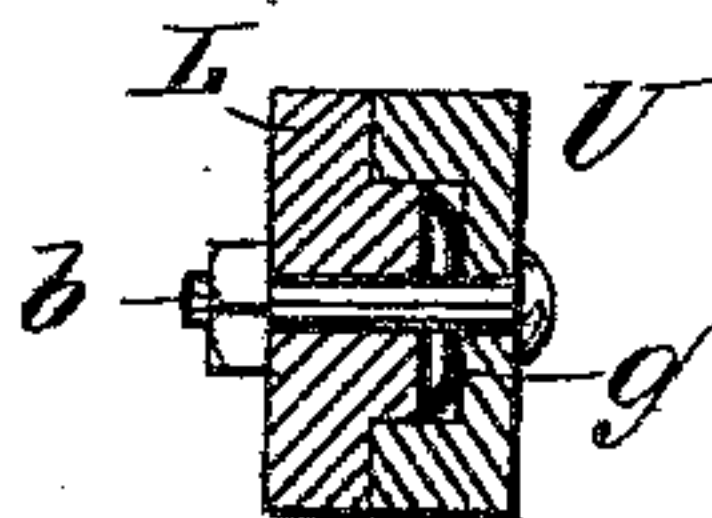


Fig. 4.

WITNESSES:

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Fig. 5.



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HERMAN WILLIAM GROEBL, OF VINCENNES, INDIANA, ASSIGNOR TO HIMSELF, JACOB WEISSENBACH, EMIL GRILL, AND FREDERICK MILLER, ALL OF SAME PLACE.

ADJUSTABLE DESK AND SEAT.

SPECIFICATION forming part of Letters Patent No. 303,002, dated August 5, 1884.

Application filed August 11, 1883. (No model.)

To all whom it may concern:

Be it known that I, H. WILLIAM GROEBL, of Vincennes, in the county of Knox and State of Indiana, have invented a new and Improved Adjustable Desk and Seat, of which the following is a full, clear, and exact description.

My invention relates to improvements in adjustable desks and seats; and it consists in the peculiar construction and arrangement of the parts, as hereinafter more fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side view of my improved adjustable desk and seat. Fig. 2 is a sectional plan view of the same, taken on the line *x x*, Fig. 1. Fig. 3 is an enlarged cross-sectional view on the line *y y*, Fig. 2. Fig. 4 is an enlarged longitudinal sectional view of the seat-joint. Fig. 5 is a cross-sectional elevation of the same.

Standards A, having a U-shaped cross-section, are secured to bases A', and on one flange of each standard A the grooved legs B of the desk C are held to slide vertically. A rack, D, projects downward from the bottom of the desk and engages with a pinion, F, mounted on the shaft F', journaled in the bar O, and having a hand-wheel, G, with which a locking-lever, H, engages, whereby the desk can be raised or lowered by turning the hand-wheel.

The desk C is provided with a pocket, C', on its under side, which pocket is open at the side, and is adapted to receive books, slates, &c. The standards J of the seat-back K are provided with half-dovetails J', which act as clamps and pass into corresponding half-dovetail grooves in the rear sides of the slats K', and screws *a* are also passed through the standards J into the rear surfaces of the slats K'. The standards J are provided at the bottom and at about half their height with backwardly-projecting arms L L', of which the lower arms, L, are united by a bar, M. At the ends of the arms L L' hook-blocks N are formed, which embrace the flanges of the standards A, and are adapted to slide vertically on the said

standards. A standard, O, secured to a cross-bar, P, uniting the bases A', has a rack, Q, provided with upwardly-projecting teeth counter-sunk in that side facing the seat-back K. In a recess, M', in the rear surface of the bar M a latch-lever, R, is pivoted, the lower end of which is pressed against the teeth of the rack Q by a spring, S, the upper handle end of the latch projecting above the bar M. Check-studs T, against which the bar M can strike, project from the standards O at the top and bottom of the rack Q. The front ends of the lower arm, L, project beyond the front surface of the seat-back, and to the said ends of the arms L the arms U, on which the seat V is secured, are pivoted by bolts *b*. The arms L and U are provided with check-shoulders *d* on the upper edges, which check-shoulders come in contact when the seat is raised or swung upward, and prevent the outer edges of the seat from coming in contact with the seat-back. The pivoted ends of the arms L and U are rabbeted, as shown in Fig. 5, and between the rabbeted joint parts a concave steel spring-washer, *g*, is held for the purpose of holding the seat in position at any inclination, and to prevent rattling of the joints.

The desk can be adjusted higher or lower by turning the hand-wheel G, and is locked in position automatically by the lever H. If the seat is drawn upward, the lower end of the latch-lever R slides over the teeth of the rack Q, and if the seat is released it is locked in position automatically by the latch R. If the seat is to be lowered, the upper end of the latch R must be pressed toward the standard O to disengage the lower end from the teeth of the rack. The seat can thus be adjusted independently of the desk, and the desk can be adjusted vertically independently of the seat.

School-seats, school-desks, office-desks, or any other kinds of desks can be constructed in the manner herein described.

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

1. The combination, with the flanged standards A, secured to the bases A', recessed standard O, and grooved legs B, of the desk C, each leg being adapted to slide on one of the flanges

of the standards A, of the rack D, projecting downwardly from the desk, pinion F, shaft F', journaled in the standard O, hand-wheel G, and spring-pressed locking-lever H, all constructed and operated as set forth.

2. The combination, with the seat-back J, having arms L L', and recessed bar M, uniting the arms L, of the bases A', flanged standards A, hooked blocks N, standard O, provided with the rack Q, check-studs T, latch R, and spring S, substantially as shown and described.

3. In a combined desk and seat, the combination, with the standards A and O, of the desk C, the seat-back K, the seat V, the arms L L' of the seat-back, the bar M, uniting the arms

L, the rack Q on the standard O, and the latch-lever R in the bar M, substantially as herein shown and described.

4. The combination, with the flanged standards A, of the desk C, the sliding legs B, the rack D, the pinion F, the hand-wheel G, the lever H, the sliding seat K V, the arms L L', provided with hook-blocks N, the standard O, the rack Q, and the latch R, substantially as herein shown and described.

HERMAN WILLIAM GROEBL.

Witnesses:

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