

(Model.)

H. W. GROEBL.

VERTICALLY ADJUSTABLE DESK.

No. 281,494.

Patented July 17, 1883.

Fig. 1.

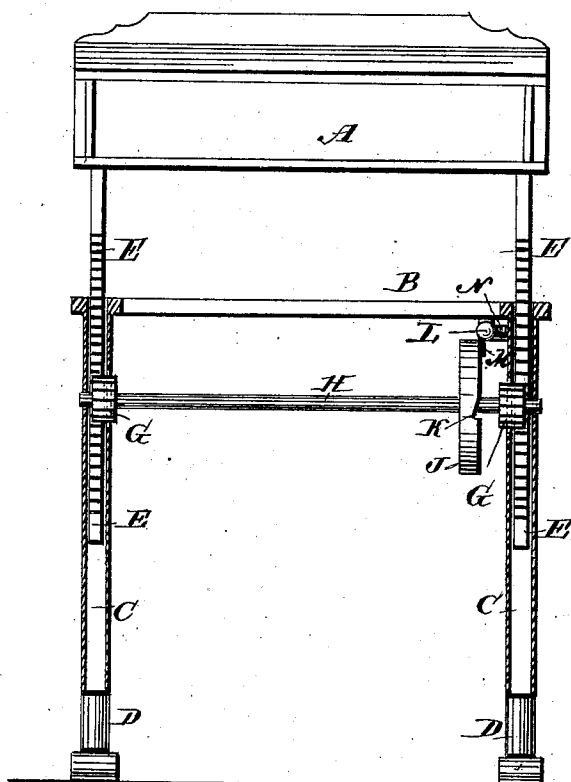


Fig. 2.

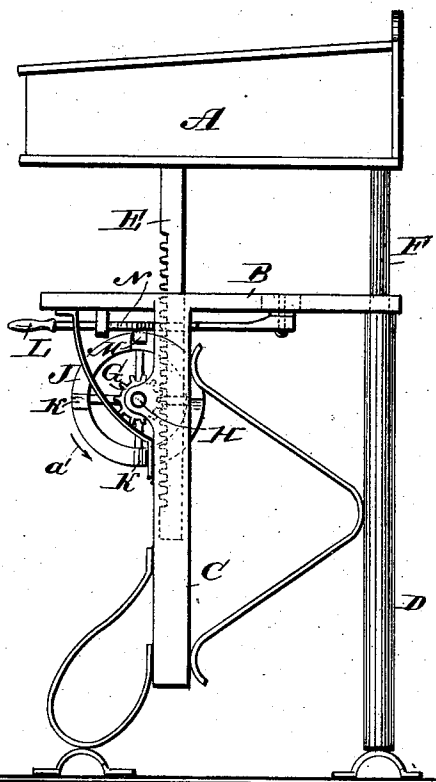
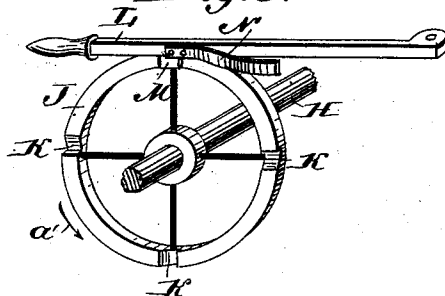


Fig. 3.



WITNESSES:

WITNESSES:
Otto Meyer
C. Sedgwick

INVENTOR:

BY *Munn & Co*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

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

VERTICALLY-ADJUSTABLE DESK.

SPECIFICATION forming part of Letters Patent No. 281,494, dated July 17, 1883.

Application filed March 27, 1883. (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
5 Vertically-Adjustable Desk, of which the following is a full, clear, and exact description.

The object of my invention is to provide certain new and useful improvements in desks, work-benches, &c., whereby the same can be
10 adjusted higher or lower very easily and rapidly.

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.
15

Figure 1 is a front elevation of my improved vertically-adjustable desk, parts being shown in section. Fig. 2 is an end elevation of the same. Fig. 3 is a perspective detail view of
20 the notched hand-wheel and the locking-lever.

The desk A rests upon a frame, B, supported at the front by hollow legs C, and at the rear by tubular legs D. At each end of the desk a rack, E, is attached to the bottom of the
25 same, which racks fit within the hollow front legs, C, and at the rear the desk has a rod, F, attached to the bottom at each end, which rods fit within the tubular rear legs, D. The racks E engage with pinions G, mounted rigidly on
30 a shaft, H, journaled in the hollow front legs, C, and on which shaft a hand-wheel, J, is rigidly mounted near one leg, C. The wheel J is provided in one side of its rim with a series of notches, K, having one edge beveled
35 and the other parallel with the shaft H. A lever, L, pivoted on the frame B to swing laterally, is provided with a tooth, M, fitting in the notches K, which lever is acted upon by a spring, N, which presses the tooth against the
40 notched side of the rim of the hand-wheel J.

By turning the hand-wheel in the direction of the arrow *a'* the pinions G raise the racks E and the desk, the rods F acting as guides. The notches K have their beveled edges arranged in such a manner that when the wheel
45 J is turned in the direction of the arrow the straight edges of the notches will not strike against the tooth M. As soon as the desk is released the weight of the same will revolve the shaft H and hand-wheel J in the inverse
50 direction of the arrow *a'*, and as the tooth M is pressed against the notched edge of the wheel the straight edge of one of the notches K will strike against the tooth, and will automatically
55 lock the desk in position. If the desk is to be lowered, the lever L must be pressed in the direction from the hand-wheel J.

Work-benches, sewing-tables, draftsmen's, and engravers' tables, &c., can be constructed
60 in the same manner.

It is obvious the invention is applicable for raising and lowering compositors' type-cases, and to extension-tables for extending and contracting the same, the mechanism being in
65 such case necessarily arranged in horizontal position beneath the table-top.

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

The desk A, having end racks, E E, and rods F F, in combination with a supporting-frame, B, provided with the hollow legs D, leg C, the shaft H, carrying the rim-notched hand-wheel J, and pinions G G, the laterally-swinging lever L, provided with lug M, and the spring N, as and for the purpose specified.

H. WILLIAM GROEBL.

Witnesses:

JAMES HOLLAND,
MICHAEL HALLER.