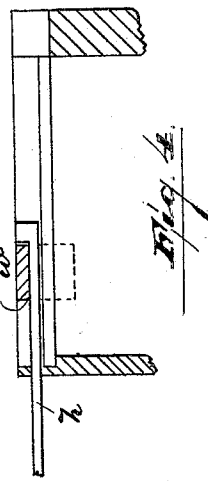
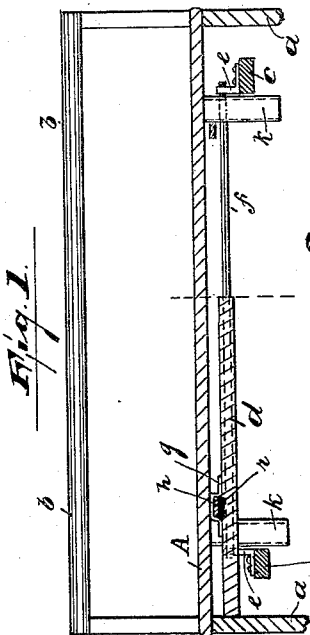
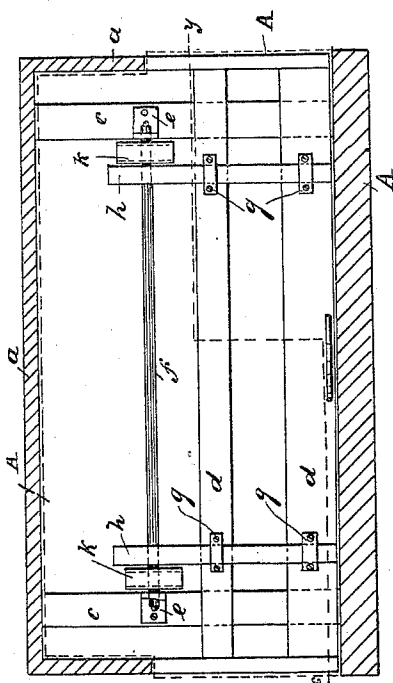
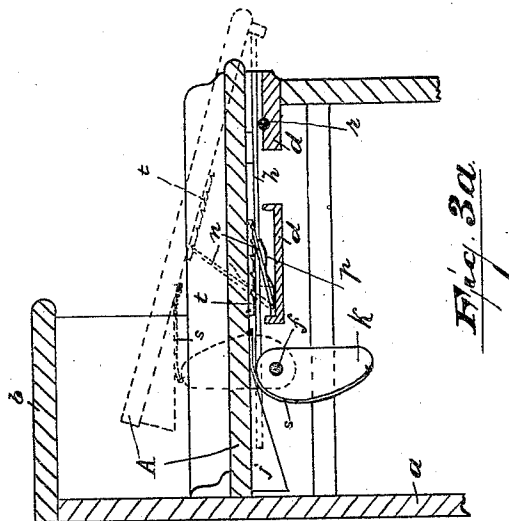
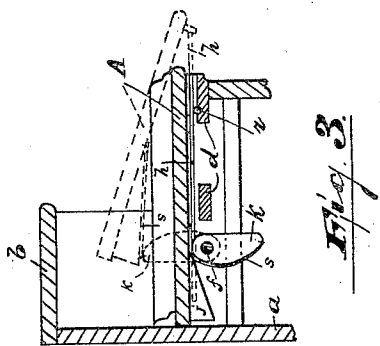


(No Model.)

C. SCHUSTER.
SCHOOL DESK.

No. 469,378.

Patented Feb. 23, 1892.



WITNESSES:

Walter Thompson.
E. Burkheiser

INVENTOR .

Carl Schuster

BY *Sartner & Co.*
ATTORNEYS

UNITED STATES PATENT OFFICE.

CARL SCHUSTER, OF BERLIN, GERMANY.

SCHOOL-DESK.

SPECIFICATION forming part of Letters Patent No. 469,378, dated February 23, 1892.

Application filed May 6, 1891. Serial No. 391,713. (No model.)

To all whom it may concern:

Be it known that I, CARL SCHUSTER, cabinet-maker, a subject of the German Emperor, residing at 25 Dorotheenstrasse, Berlin, in the Kingdom of Prussia, German Empire, have invented a new and useful Improvement in Writing Tables or Desks for Schools and for other Purposes, of which the following is a specification.

The object of my invention is to provide a writing-table which can easily be adjusted and in such manner that it affords a convenient support for writing and suitable to the height of the person using it.

The invention consists of the usual frame, on top of which is arranged a box-shaped attachment with two bars passing from the front to back of same and two similar bars from one side to the other. To the former bars are secured bearings, in which rotates a rod or shaft carrying two eccentrics or cams in connection with and bearing on the under side of the desk-table by means of elastic bands of steel, leather, or similar material. To the cross-bars, or those passing from side to side, are attached the ends of two metallic sliding bars, the other ends of these bars being hinged to the under side of the desk-table. When the desk-table is pulled forward, the elastic bands attached thereto cause the eccentrics to turn, thus causing the desk-table to be raised from a horizontal to an angular or slanting position.

If desired, wedge-shaped pieces can be secured to the under side of the desk-table, against which the eccentrics or cams can work and thus assist in raising the desk-table. When the table has been pulled forward to the position desired, it can be held in that position by racks with stop levers or pawls.

Referring to the accompanying drawings, in which like letters of reference indicate corresponding parts in each of the several figures, Figure 1 is a top plan view with the top of the desk removed, showing my improved operating mechanism. Fig. 2 is a longitudinal section on line *xy*, Fig. 1. Fig. 3 is a vertical cross-section through the middle of Fig. 2, looking from right to left. Fig. 3^a is a similar sectional view showing a certain rack-lever and spring and the relation of these parts to the general structure of the desk, and Fig. 4 is an enlarged detail view.

In said drawings, *a* represents a frame, on the top of which rests or is secured a box-shaped cover or attachment *b*. Within the frame *a* and extending from the front to the rear are bars *c c*, and above these bars are other bars *d d*, extending lengthwise of the frame, as shown in Fig. 1. Upon the upper surfaces of the rods *c c* are firmly secured bearings *e e*, in which revolves or rotates a shaft or rod *f*. To the bars *d d* are secured in any desired manner guides or ways *g g*, in which reciprocate sliding bars *h h*. Upon the top of the frame *a* is arranged a writing-table *A*, adapted to be moved in and out on the top of the table, as will be hereinafter described. To this table *A* are hinged or pivoted on its under side the forward ends of the sliding bars *h h*, the other ends of said bars being left free, as shown in Figs. 1 and 3. On the shaft or rod *f* are mounted or secured two eccentrics or cams *k k*, to the outer periphery of which ends of straps or bands *s s* are attached, the other ends of said straps being secured to the under side of the table *A* and forward of the shaft or rod *f*, as shown in Fig. 3. When desired, triangular or wedge-shaped blocks *j* can be secured to the under side of the table *A*, as shown in Fig. 3, and are so located that they can be acted on directly by the eccentrics to aid in assisting the raising of the table to such angular position as may be sought.

To facilitate the reciprocating movement of the bars *h h* and to decrease the friction, I have shown in Figs. 2 and 3 rolls *r*, upon which the bars *h h* rest in their movement. To prevent these bars *h h* from being drawn too far forward, a groove or recess *v* can be formed in the rear portion of the bars, adapted and arranged to receive a lug or projection *w* on the under side of the table *A*, as shown in Fig. 4.

To enable the table *A* to be firmly held in any desired position after it has been pulled or drawn forward, a recess *m* is formed in the upper side of the bar *d*, and in the bottom of this recess is secured by a hinge or pivot one end of a lever *n* and adapted to rest within the recess when not in use. Within this recess is also secured an actuating-spring *p* for controlling the lever *n*.

On the under side of the table *A* and oppo-

site the recess *m* when the table is pushed in is secured a rack or ratchet bar *t*, arranged to receive and hold the free end of the lever *n*. This is shown in Fig. 3^a.

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

1. An adjustable writing table or desk combining therein a frame-work *a b*, a top *A*,
10 adapted to slide within said frame-work, sliding bars *h h*, hinged to the top *A* and adapted to guide said top in its movement, eccentrics or cams *k k*, elastic bands *s s*, connecting said
15 adapted to be raised or lowered by the sliding movement of said top, and two sets of cross-bars *c c* and *d d* for supporting the shaft of the eccentrics and the guides for sliding bars
20 *h h*, all said parts being arranged and adapted to operate substantially as described, and for the purpose set forth.

2. An adjustable writing table or desk combining therein a frame-work *a b*, a top *A*, adapted to slide within said frame-work, sliding bars *h h*, hinged to said top, cross-bars *d* 25 *d* for guiding said sliding bars, eccentrics or cams *k k*, elastic bands *s s*, connecting said cams with said top, said eccentrics being adapted to be raised or lowered by the sliding movement of top *A*, a rack *t*, secured to said 30 top, and a lever *n*, pivoted to cross-bar *d* and controlled by a spring *p* and adapted to hold the top firmly in any desired position, all said parts being arranged and adapted to operate substantially as described, and for the purpose 35 set forth.

In witness whereof I have hereunto set my hand in presence of two witnesses.

CARL SCHUSTER.

Witnesses:

W. H. EDWARDS,
W. HAUPT.