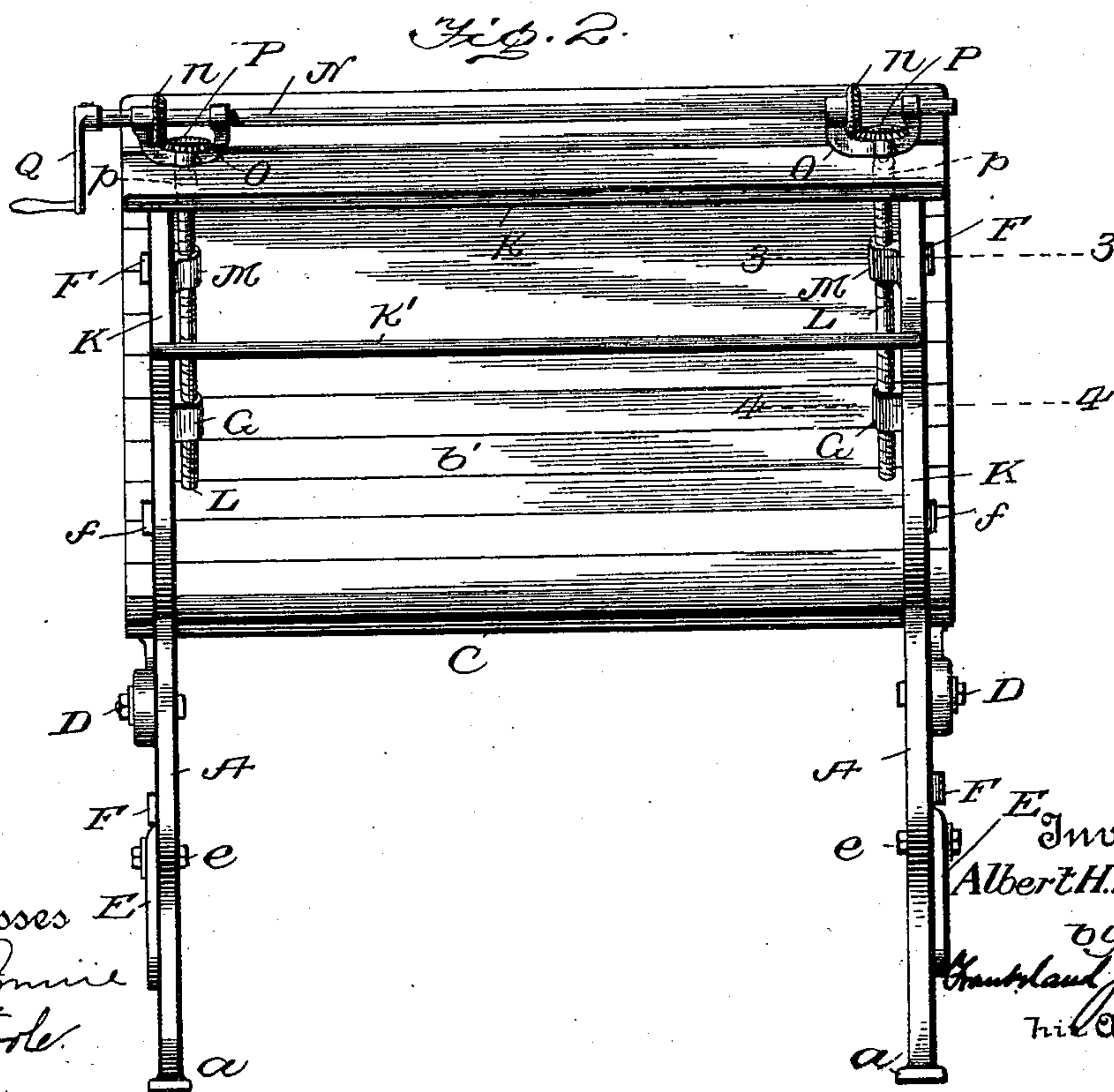
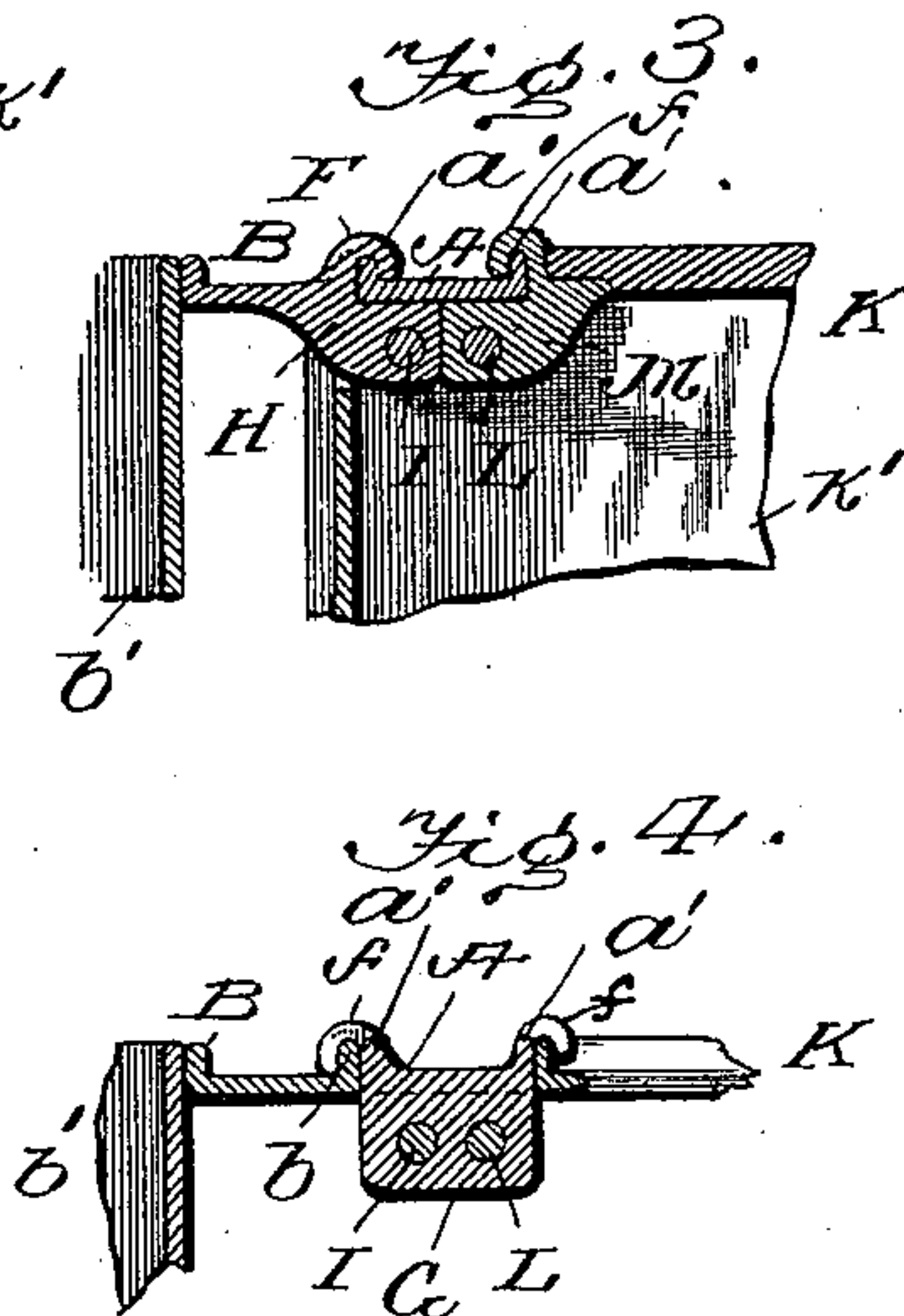


A. H. KENNEDY.  
SCHOOL DESK.

Patented Apr. 5, 1898.



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# UNITED STATES PATENT OFFICE.

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## SCHOOL-DESK.

SPECIFICATION forming part of Letters Patent No. 601,876, dated April 5, 1898.

Application filed April 1, 1897. Serial No. 630,201. (No model.)

*To all whom it may concern:*

Be it known that I, ALBERT H. KENNEDY, a citizen of the United States, residing at Rockport, in the county of Spencer and State of Indiana, have invented certain new and useful Improvements in School-Desks, of which the following is a description, reference being had to the accompanying drawings and to the letters of reference marked thereon.

My invention relates to improvements in school furniture, and comprises the combination of an adjustable seat for the pupil and an adjustable desk at the rear of said seat for the pupil behind him; and the object of my invention is to produce a strong, substantial, neat, and conveniently-operated structure whereby the supporting mechanism for the moving parts may be simultaneously adjusted and whereby said moving parts are attached to the stationary supports in a simple and convenient manner.

In the accompanying drawings, Figure 1 is a view in side elevation, the upper portion thereof being in vertical section, showing the interior construction. Fig. 2 is a rear end view in elevation. Fig. 3 is a detail on the line 3 3 of Fig. 2. Fig. 4 is a detail on the line 4 4 of Fig. 2.

A A are the two standards or main supports with feet *a a*, which support the combined desk and chair and are preferably formed of cast metal.

B B are two metallic frames, so shaped as to receive the slats composing the back on their upper portion and the seat C at their lower portion, said seat being adjustably connected therewith by bolts D. The seat-frames B B are each provided with a downwardly-extending slotted lug E, and by means of suitable bolts *e*, passing through the standards A, are securely fixed in their adjusted positions. The upper portions of the frames A are provided with beaded edges *a' a'*, and the outer edges of the said frames B B are provided with corresponding beads *b*. A number of cleats F F *ff* are provided upon the standards and upon the seat-frames and also upon the edges of the frames of the desk, each overlapping their coinciding beaded edges, so that when the parts are fitted together the seat and desk frames will be vertically mov-

able, being held in position by the cleats embracing their beaded edges.

J is a vertically-movable desk secured at the rear of the seat portion, and said desk comprises end frames K, independent of the seat-frames B, but similarly provided with beaded edges *j* and connecting lugs or cleats *f*, which engage the beads upon the outer edges of the standards A.

Cleats F F are preferably integral with the seat and desk frames and extend from the rear edges thereof over the beads on the standards A, as clearly shown in Fig. 3. The cleats *ff* extend similarly from the standards A and engage the beaded edges of the seat and desk frames, (see Fig. 4,) constituting, when the parts are put together, a strong connection, permitting vertical movement.

G indicates a projection secured to or integral with the upper portion of each of the standards A, and H is a lug projecting from each of the seat-frames B. An adjusting device, preferably consisting of double screw-threaded rods I I, engages suitable screw-threads which are formed in the stationary projections G on the standards A and the projections H H on the vertically-movable seat-frames B.

Upon the inside of the desk J are formed lugs M M, through which pass a second set of adjusting-screws L, which also engage suitable screw-threads in the lugs G. With this construction the desk is adjusted vertically by the screws L L, and the seat-frames are similarly adjusted by the screws I I separately and independently. The desk is also sufficiently supported by its adjusting-screws; but for greater security the seat-frames are locked in their adjusted positions by bolts *e*.

The seat-frames B are provided with the usual slats or strips *b'*, which extend across the space between them and form the back of the seat, and the seat C is also formed in the usual manner of slats or strips, preferably of wood, as indicated.

The desk J is composed of the end frames K and the top and bottom pieces *k k'*, but may be more elaborately finished or provided with partitions, doors, &c., as desired.

It will be understood that two sets of adjusting-screws are employed, one set on each



side of the combined chair and desk, and it will be noticed that they are arranged on the inside of the piece of furniture, where they are protected and out of the way, and their upper ends are arranged to be accessible through two openings made in the top of the desk near its opposite upper corners, which openings will serve for the introduction of the usual ink-wells.

10 In order to secure correctness, ease, and facility of operation in making the desired adjustments, I provide a separate device for operating either set of adjusting-screws simultaneously. This device comprises a shaft N,  
15 provided at each end with yokes O O. Within these yokes are rotatably supported beveled gears P P, the shafts extending from which are journaled in the lower part of the yoke and expanded to form heads *p*, which are ap-  
20 ertured or otherwise formed to engage the upper ends of the adjusting-screws. The shaft N is provided with two beveled gears *n n*, and a crank Q is fixed to the end of the shaft, by turning which the beveled gears *n n* will be  
25 simultaneously rotated, together with the adjusting-screws, to which they may be applied, it being understood that the adjusting device will fit both adjusting-screws and is applied to either, as occasion requires, and that  
30 when the desired adjustment is made the said operating device is removed, the ink-wells replaced, or suitable covers placed over the openings, when the entire adjusting mechanism is concealed.

35 I do not limit myself to the exact details of construction shown and described for the purposes of this application, since the same may be varied in many minor details in view of the foregoing without the exercise of inven-  
40 tion.

Having described my invention, what I claim is—

1. In a combined desk and seat, the combination with the standards, two desk-frames  
45 which slide thereon, two seat-frames which slide upon said standards, two vertical screws which engage with the standards and desk-frames, two vertical screws which engage with the seat-frames and standards, a desk-  
50 top secured to the desk-frames having holes, and an operating device adapted to project through said holes and engage with and simultaneously operate both desk-frame screws or both seat-frame screws, substantially as  
55 specified.

2. In school furniture, the combination with the standards, two connected frame members which slide respectively thereon, and two vertical adjusting-screws which engage  
60 with said standards and frame members, with a removable operating device consisting of a shaft N, yokes O O, vertical shafts journaled

in said yokes and adapted to engage with the upper ends of said operating-screws, and bevel-gears on said vertical shafts and shaft N respectively, substantially as specified. 65

3. In a school-desk, the combination with the end frames made in separate sections and provided with cleats adapted to secure them one to the other in vertically-adjustable po-  
70 sitions, of adjusting-screws for each of the end frames, and an operating device for simultaneously operating the adjusting-screws.

4. In a school-desk, the combination with the standards having beaded edges, and cleats  
75 extending from said edges, of desk-frames having beaded edges corresponding with those of the standards and adapted to engage the cleats extending from the edges of the stand-  
80 ards, vertically-adjusting screws at each end of the desk, and a removable device for operating the adjusting-screws simultaneously.

5. In a combined school desk and seat, the combination with the vertical standards hav-  
85 ing beaded edges and cleats extending therefrom and integral therewith, of the vertically-adjustable seat-frames similarly provided with beaded edges for engaging the cleats upon the standards and having also cleats ex-  
90 tending over the beading of the standards, of vertically-adjusting screws arranged upon the inside of the said standards and means for operating said adjusting-screws simulta-  
neously to effect the desired adjustment.

6. In a combined school desk and seat, the  
95 combination with the vertical standards having beaded edges and cleats extending from both of said edges, of the vertically-adjustable seat-frames similarly provided with  
100 beaded edges for engaging the cleats upon the standards and having also cleats engaging the beaded edges of the standards, a desk having end frames provided with beaded  
105 edges adapted to engage the cleats upon the rear edges of the standards, and provided also with cleats extending over the said beaded edges of the standards, a screw-threaded block attached upon the inner side of each  
110 of the standards, a pair of adjusting-screws engaging the seat-frames and the blocks upon the standards, and a separate pair of adjusting-screws engaging the desk-frames and the said blocks upon the standards, said adjust-  
115 ing-screws being arranged on the inside of the seat and desk frames, and means for operating either pair of adjusting-screws simultaneously to effect the desired adjustment.

In testimony whereof I hereto affix my signature in presence of two witnesses.

ALBERT H. KENNEDY.

Witnesses:

ELBERT M. SWAN,  
E. E. WESSELER.