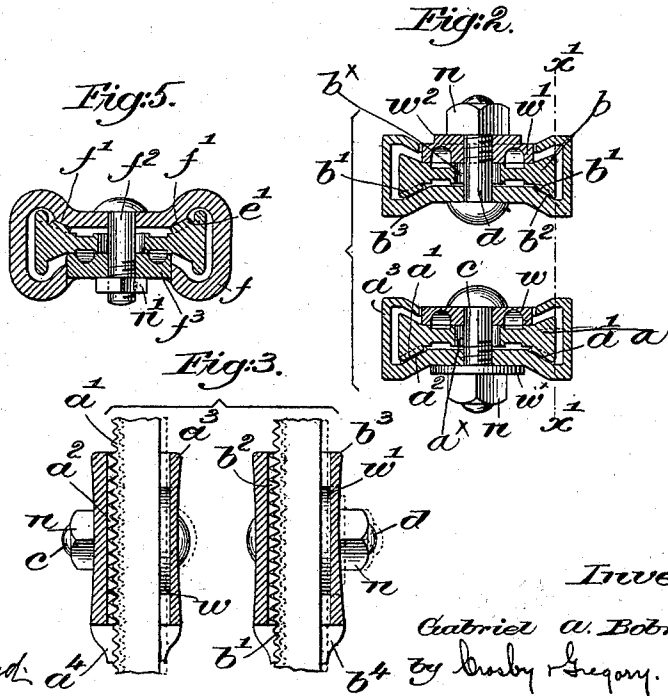
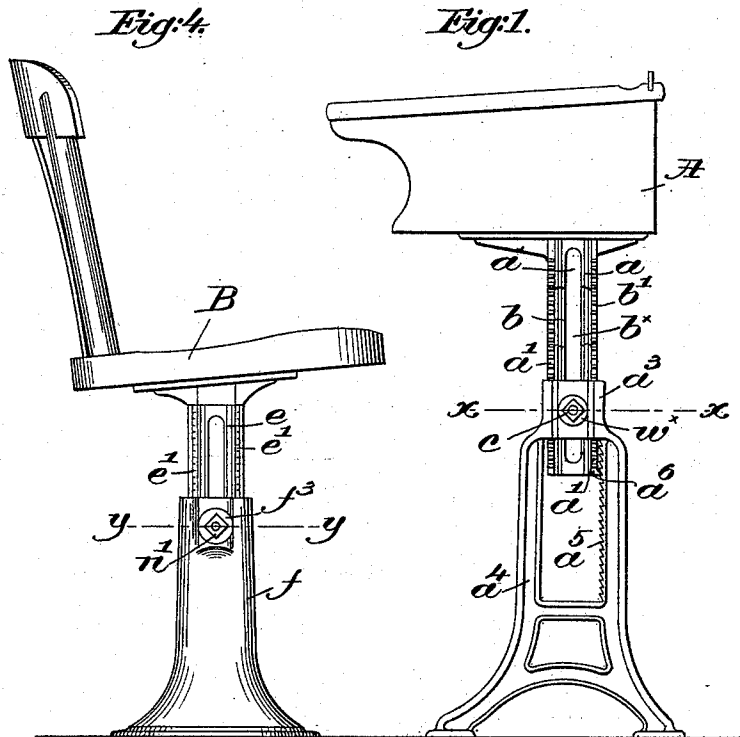


(No Model.)

G. A. BOBRICK.
ADJUSTABLE SUPPORT FOR SCHOOL DESKS.

No. 541,806.

Patented June 25, 1895.



Witnesses.
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ADJUSTABLE SUPPORT FOR SCHOOL-DESKS.

SPECIFICATION forming part of Letters Patent No. 541,806, dated June 25, 1895.

Application filed January 16, 1895. Serial No. 535,092. (No model.)

To all whom it may concern:

Be it known that I, GABRIEL A. BOBRICK, of Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in Adjustable Supports for School-Desks, &c., of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

10 This invention relates to adjustable supports for furniture, and more particularly to school desks and seats, which must be adjustable in accordance with the height of the pupils, and my invention has for its object the
15 production of a support for such furniture which is strong and serviceable in construction, readily and quickly adjustable, and so arranged that adjustment will be accomplished with entire safety to the operator.
20 In accordance therewith my invention consists in various details of construction and arrangement hereinafter described at length in the specification and particularly pointed out in the claims.

25 Figure 1 in side elevation, with the movable member of one of the supports broken out, represents one embodiment of my invention as applied to a school desk. Fig. 2 is an enlarged sectional view, taken on the line $x x$,
30 Fig. 1, showing the two standards or supports. Fig. 3 is a vertical section taken on the line $x' x'$, Fig. 2. Fig. 4 represents in side elevation a school seat or chair with a slightly modified form of support, and Fig. 5 is an enlarged sectional view on the line $y y$, Fig. 4.

35 In Fig. 1, I have shown a school desk A as having secured to its under side the brackets or cross arms of like metal bars a , b , longitudinally slotted at a^x , b^x , respectively.
40 While these bars, which form the movable or adjustable members of the supports, are alike, they have been designated by different reference letters for the sake of clearness in description. These bars are shown as central
45 webs, in which are made the slots a^x , b^x , and enlarged at their longitudinal edges to form separated but converging faces, a' and b' , respectively, transversely toothed or notched, see Figs. 1 and 3, to engage the inner simi-
50 larly converged and transversely notched bearings a^2 , b^2 , in the heads a^3 , b^3 , respectively, of the two like standards or fixed members a^4 ,

b^4 , of the supports. Each head has an opening in one side for the shanks of suitable bolts c and d , which are extended through the slots in the movable members a and b of the supports, and then through large washers w , w' , which enter freely suitable holes in the opposite sides of the heads, as clearly shown in Figs. 2 and 3, and set nuts n retain the bolts or clamping screws in place.

Referring to Fig. 2, it will be seen that the toothed converging faces a' and b' are on the same sides of the bars a and b , the bearings a^2 and b^2 being similarly situated in the heads of the stationary members a^4 and b^4 . It will be also seen that the open heads a^3 and b^3 are wide enough to permit considerable movement laterally of the movable members therein when the clamping screws are loosened, the latter being oppositely arranged, but with the washers w and w' bearing on the corresponding sides of the movable members.

While the screws are tight, as in Fig. 2, the notched or toothed faces of the movable member of each support will be held in close engagement with the correspondingly notched bearings of the head of each fixed member, but when the nuts n are loosened the two bars a and b can be moved into dotted line position, Fig. 3, preparatory to being adjusted. Thus by grasping the desk A the operator, moving it laterally, will cause engagement or disengagement of the bearings and co-operating converging faces. A loose washer w^x surrounds the screw c between the nut n and the side of the head a^3 , and to make the outer side of the other support present a similar appearance I have built up the washer w' at w^2 , Fig. 2, the clamping nuts being at the outer side of each head in order to be conveniently reached in adjusting.

In order to prevent an accidental fall of the desk when unclamped I have provided each standard below the head with a series of teeth, only those on the standard a^4 being shown, however, at a^5 , Fig. 1, to be engaged by a toe as a^6 on the lower end of the movable member a , the weight of the desk being so distributed as to cause said toes to normally enter one of the notches of its co-operating series.

When the desk is to be lowered the operator unclamps the movable members a and b as described, moves the desk laterally and

also forward, thereby disengaging first the notched converging faces and bearings, and then the supporting toes from their notches, after which the desk can be lowered to the
5 desired height and released, the toes catching in their co-operating series of teeth to support it until again clamped.

In Figs. 4 and 5 the construction of the support is modified to adapt it to a desk or chair
10 B, to the under side of which is attached the movable member *e*, longitudinally slotted, and having converging faces *e'*, transversely notched or toothed. These faces are held against similar converging bearings *f'* in the
15 base *f*, by a clamping screw *f*² and nut *n'*, the nut bearing against the outer side of a washer *f*³ entering a hole in the side of the base, tightening of the nut drawing the washer against the member *e* and forcing the faces
20 *e'* against the bearings *f'* of the base.

In the modification the supporting toe and its co-operating series of notches, forming a detent, are omitted.

The converging bearings in the fixed members or standards are long enough to give a firm, steady bearing for the movable members when clamped.

I claim—

1. An adjustable desk having secured there-
30 to two depending longitudinally slotted bars, one of said bars being transversely notched on its inner side, and the other bar on its outer side, combined with two fixed standards each having transversely notched bearings to co-
35 operate with the adjacent notched sides of the bars, and clamping screws extended through said standards and slotted bars, to draw the notched sides of the bars against the bearings in the standards, whereby when the clamping
40 screws are loosened lateral bodily movement of the desk will disengage the bars from the bearings, to permit adjustment of the desk, substantially as described.

2. An adjustable desk having secured there-
45 to two depending longitudinally slotted bars, and two converging, transversely notched separated faces on corresponding sides of said bars, combined with two fixed open-headed standards, to receive the said bars, conver-
50 ing transversely notched bearings within each

head to co-operate with the converging faces of the bar movable therein, clamping screws extended through said heads and slotted bars, to draw the converging faces of the bars against the bearings in the head, and thereby
55 clamp said bars, and a detent to normally retain each bar from downward movement when unclamped, lateral movement of the desk disengaging the converging faces and bearings when the clamping screws are loosened, sub-
60 stantially as described.

3. An adjustable support for furniture, consisting of a fixed member or standard having an open head, transversely notched converging bearings in one side of said head, and a
65 washer loosely held in the head opposite said bearings, combined with a longitudinally slotted member movable in said head, converging and transversely notched faces on one side thereof to co-operate with said bear-
70 ings, and a clamping screw in the head extended through the slotted bar and washer, to draw said faces against the bearings in the head when clamped, substantially as described.
75

4. An adjustable desk having secured there-
to two depending longitudinally slotted bars, and two converging, transversely notched separated faces on corresponding sides of said
80 bars, combined with two fixed open-headed standards, to receive the said bars, converging transversely notched bearings within each head to co-operate with the converging faces of the bar movable therein, clamping screws
85 extended through said heads and slotted bars, washers loosely held in said heads opposite the bearings and on the screws, to clamp said bars between the washers and the said bearings, and a detent to normally retain each bar from downward movement when unclamped,
90 lateral movement of the desk disengaging the converging faces and bearings, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of
95 two subscribing witnesses.

GABRIEL A. BOBRICK.

Witnesses:

AUGUSTA E. DEAN,
JOHN C. EDWARDS.