

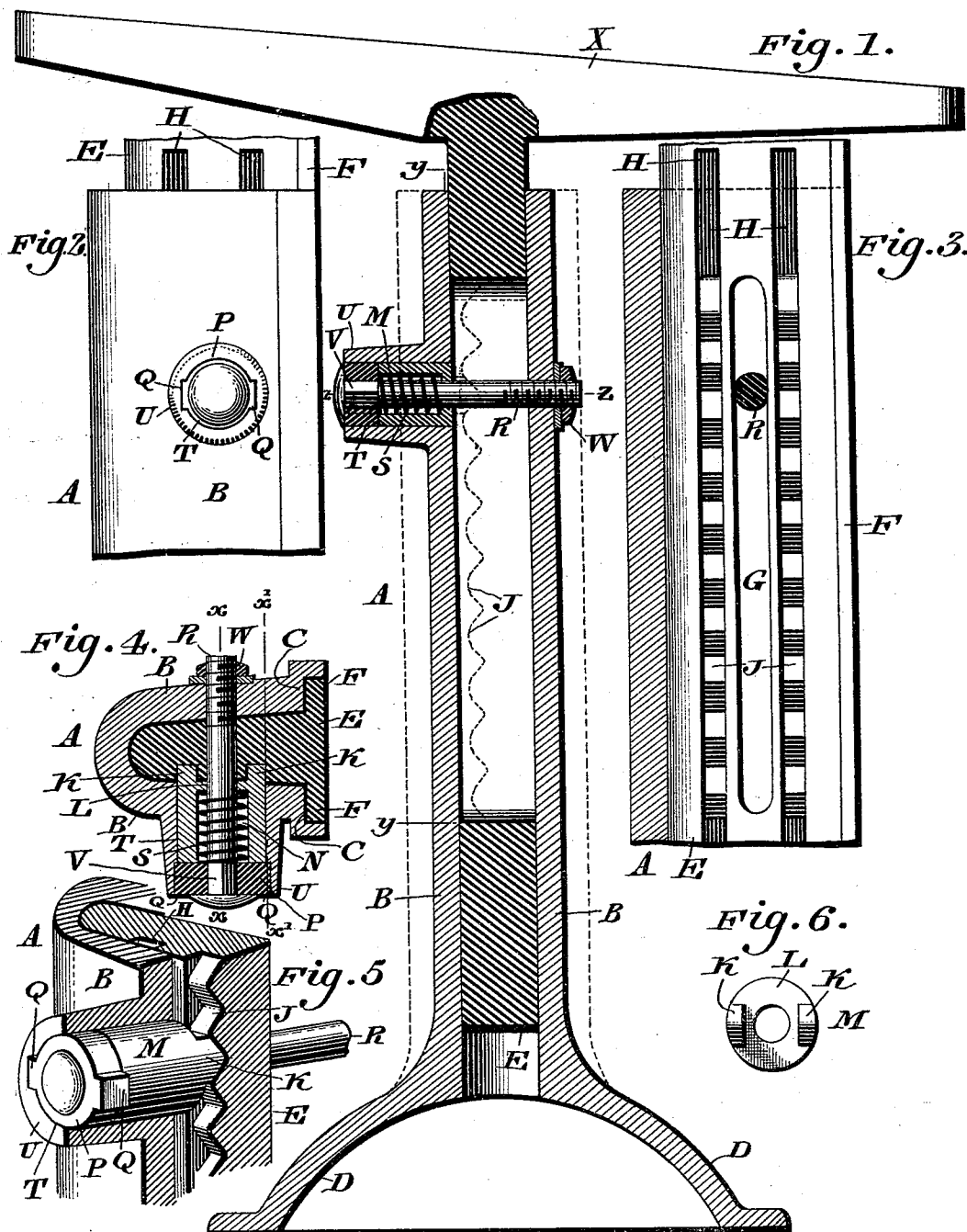
(No Model.)

J. PEARD.

### ADJUSTABLE SUPPORT FOR SCHOOL FURNITURE.

No. 542,862.

Patented July 16, 1895.



Witnesses

P. H. Bagley.

L. Dowville.

Inventor

Inventor  
John Beard.

Dr. John A. Diederich

Attorney

# UNITED STATES PATENT OFFICE.

JOHN PEARL, OF BUCYRUS, OHIO.

## ADJUSTABLE SUPPORT FOR SCHOOL FURNITURE.

SPECIFICATION forming part of Letters Patent No. 542,862, dated July 16, 1895.

Application filed April 2, 1895. Serial No. 544,142. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN PEARL, a citizen of the United States, residing at Bucyrus, in the county of Crawford, State of Ohio, have invented a new and useful Improvement in Adjustable Supports for School Furniture, &c., which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of a novel construction of adjustable support for school furniture—such as desks, chairs, seats, &c.—in which provision is made for enabling the user to adjust the above without being obliged to hold the same in the desired position while manipulating the locking device, which is ordinarily a difficult matter, as chairs and desks of this character are usually secured to the floor and not easy of access, the sections of the supporting device being readily movable relative to each other and always held temporarily at the desired height during the act of locking without requiring additional attention on the part of the operator.

It further consists of the novel details of construction, all as will be hereinafter set forth.

Figure 1 represents a vertical sectional view of an adjustable support for school furniture, &c., embodying my invention, the section being taken on line *xx*, Fig. 4. Fig. 2 represents a front elevation of a portion thereof. Fig. 3 represents a section on line *yy*, Fig. 1. Fig. 4 represents a section on line *zz*, Fig. 1. Fig. 5 represents a perspective view of a partial section on line *x'x'*, Fig. 4. Fig. 6 represents a plan view of a cup employed, showing especially the check-stops thereon.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings, A designates a pedestal, the same consisting of the upright side portions B B, which meet at the front and are open at the back, at which latter point the ways C C are formed, said portions terminating in the flange D, which is adapted to be secured to the floor or other support.

E designates a vertically-movable adjusting-bar of substantially T shape in cross-section, as will be understood from Fig. 4, said

bar having the flanges F, which are adapted to slide in the ways C.

G designates a longitudinally-extending slot in said bar, the width and extent of which will be understood from Fig. 3, there being on each side of said slot the longitudinally-extending grooves H, which are provided with the ratchets or roughened portions J, which are engaged by the projections or check-stops K, attached to the bottom portion L of the cup M, said cup having a hollowed-out portion N, in which the spring S is contained, one end of which abuts against the bottom of said cup, while the other end is in contact with the under side of the cap P, which latter is provided with the lips Q, which are preferably diametrically opposite to each other and engage similarly-shaped recesses in the extremity of the boss U, in which the hole or socket T is located, said boss being attached to the upper portion of the pedestal A.

R designates a bolt adapted to pass through the cap P, the slot G, and one of the sides B when the parts are assembled, said bolt having a squared portion V, which engages a similarly-squared portion in said cap P, the head of said bolt being in contact therewith, while the other end thereof is engaged by a washer and nut W, whereby it will be seen that the tendency of the spring S, when the parts are assembled in the position seen in Figs. 1, 4, and 5, will be to keep the check-stops K in contact with the ratchets J, it being noticed that there are two of the latter, and that in order to adjust the height of the bar E and the flange X thereon, upon which a seat or desk may be supported, it is only necessary to loosen the nut W, whereby said check-stops will be less rigidly held in contact with the ratchets and the bar E can be readily moved, it being further noticed that the engagement of said check-stops K with said bar renders it unnecessary for the user to hold the desk temporarily in the desired position while the locking device is being manipulated, the spring S exerting its force on the base L of the cap M sufficiently to hold said check-stops in engagement with the ratchets.

The operation is as follows: Assuming the parts to be in the position seen in Figs. 1, 4,

and 5, if the nut W is tightly in contact with the washer or the side of the pedestal A it will be seen that the cap P is drawn tightly into contact with the cup J and the check-stops on the latter will be held in contact with the ratchets, the tops of the latter being slightly below the face of said groove, as seen in Fig. 1, so that said check-stops will not readily become disengaged from said ratchets, so as to leave the grooves H. If now it is desired to adjust the height of the seat or desk on the flange, the operator loosens the nut W and moves the bar E up or down into the desired position, the spring S tending always to keep the check-stops K in contact with said ratchets, as stated, so that it is unnecessary to hold the bar E while in the act of locking the same. When the said bar has been moved to the desired position, the nut W is tightened, the bolt R being prevented from rotating by the engagement of its squared portion with the adjacent portion of the cap P, while the latter is held from rotating by its engagement with the boss U, as will be evident from Figs. 2 and 5, the cup M, which fits loosely in its socket, being thus drawn inwardly, and the adjusting-bar E being rigidly held by the engagement of the check-stops therewith, as stated, it being evident from the foregoing that when the spring is distended the tightening of the nut W will draw the cap P against the same toward the cup, the tension of the spring thus being varied as the location of the cap P changes by manipulating said nut W.

It will of course be apparent that said cup M may be of other than cylindrical shape and that other means may be employed than those shown for preventing the rotation of the bolt R and the cap P; also, that the shape of the pedestal and the adjusting-bar E may be slightly varied, and that other changes may also be made by those skilled in the art, which will come within the scope of my invention, and I do not, therefore, desire to be limited in every instance to the exact constructions I have herein shown and described.

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

1. In an adjustable support for school furniture, a grooved pedestal, an adjusting bar movable in said groove, ratchets on said bar, a socket or hole in said pedestal, a cup freely movable in said socket, check-stops or projections attached to said cup, and adapted to engage said ratchets, a spring seated within said cup, and means for varying the tension of said spring, substantially as described.

2. In an adjustable support for school furniture, a pedestal, a slotted adjusting bar movable freely therein, ratchets on said bar, a boss having a hole or socket therein, attached to said pedestal, a cup having check-stops thereon, movable in said socket, a spring seated within said cup, a cap adapted to rest

on said spring, a bolt or similar device passing through said cap, bar and pedestal, means for preventing said cap and bolt from rotating, and means for varying the tension of said spring, substantially as described.

3. In an adjustable support for school furniture, a pedestal composed of side pieces suitably joined together, and having an open back with ways therein, a slotted adjusting bar movable in said pedestal and ways, ratchets in said bar located in grooves on each side of said slot, the tops of said ratchets being below the face of said bar, a socket in said pedestal, a cup movable in said socket, check-stops on said cup, adapted to engage said ratchets, a spring seated in said cup, a cap for holding said spring in place, lips on said cap adapted to engage recesses adjacent said ratchet, a bolt having a squared portion passing through a squared hole in said cap, said adjusting bar and pedestal, and means for tightening said bolt, substantially as described.

4. In an adjustable support for school furniture, a pedestal, an adjusting bar having ratchets thereon, a hollow cup seated in said pedestal, and having check stops thereon, adapted to engage said ratchets, a cap adapted to rest upon said cup, a spring held within the latter, one end of said spring abutting against the bottom of said cup, while the other end thereof is in contact with said cap, and a bolt common to said cap, cup and pedestal, said bolt having a nut or similar device engaging therewith whereby the tension of said spring can be varied, substantially as described.

5. In an adjustable support for school furniture, an adjusting bar having ratchets located thereupon, a hollow cup having check stops thereon, which are adapted to engage said ratchets, a cap supported on said cup, means for preventing said cap from rotating, a spring held within said cup in contact with said cap, and means for moving said cap toward or away from said spring according to requirements, substantially as described.

6. In an adjustable support for school furniture, a pedestal, an adjusting bar, having ratchets thereon, in combination with a locking device for the above parts, the same consisting of the cup M, having the hollowed out portion N, the base L, with a hole therein, and the check stops K attached to said base, and means for holding said cup in position, substantially as described.

7. In an adjustable support for school furniture, the cap P, having a squared hole therethrough, the lips Q attached to said cap, and a cup on which said cap is adapted to be supported, in combination with a suitable pedestal, having a socket therein for the reception of said cup, said socket having recesses adapted to be engaged by said lips, substantially as described.

8. In an adjustable support for school fur-

nitire, the U-shaped pedestal B, having the ways C, and the flange D, an adjusting bar E, having the flanges F adapted to contact with said ways, a longitudinally extending slot in  
5 said bar, ratchets on each side of said slot, a cup having projections thereon engaging said ratchets, a spring adjacent said cup, a cap for holding said spring in place, and means for holding said cap, spring, and cup in position, substantially as described.

JOHN PÉARD.

In presence of—

CHARLES J. SCROGGS,  
C. BOEHN.