

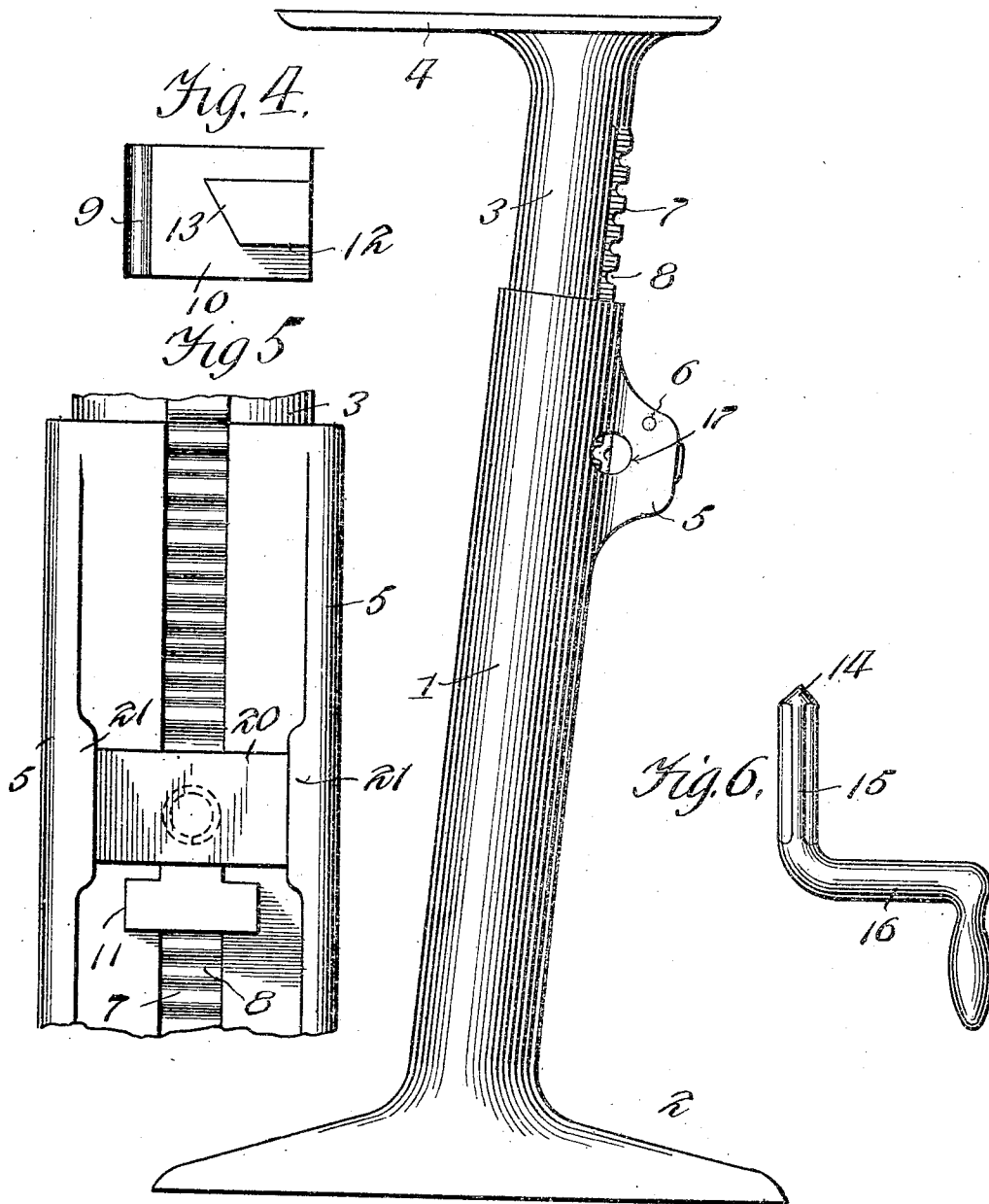
W. A. PROCTOR.
SCHOOL DESK SUPPORT.
APPLICATION FILED APR. 15, 1909.

955,546.

Patented Apr. 19, 1910.

2 SHEETS—SHEET 1.

Fig 1.



Witnesses

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R. M. Smith.

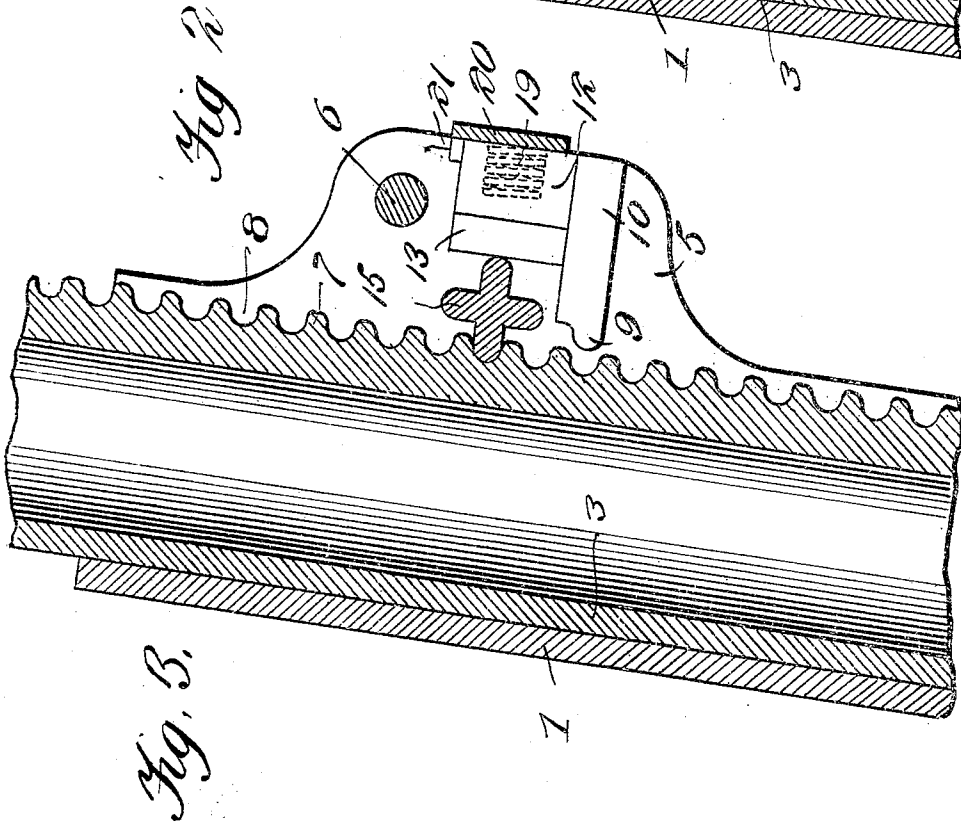
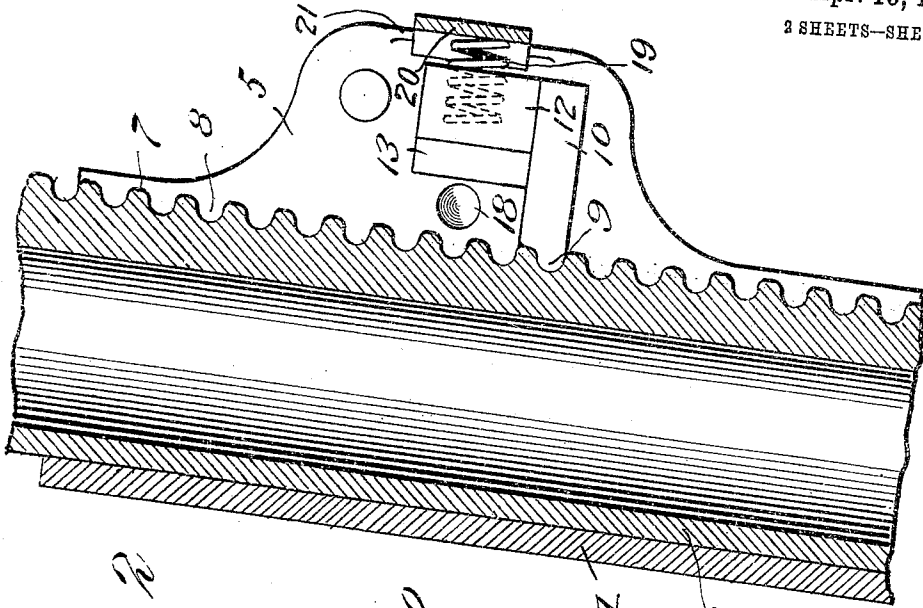
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UNITED STATES PATENT OFFICE.

WILLIAM A. PROCTOR, OF SAUGUS, MASSACHUSETTS.

SCHOOL-DESK SUPPORT.

955,546.

Specification of Letters Patent. Patented Apr. 19, 1910.

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To all whom it may concern:

Be it known that I, WILLIAM A. PROCTOR, a citizen of the United States, residing at Saugus, in the county of Essex and State of Massachusetts, have invented new and useful Improvements in School-Desk Supports, of which the following is a specification.

This invention relates to supports for school furniture, the object of the invention being to provide an inexpensive and longitudinally adjustable support for articles of school furniture such as desks, seats and the like in order that the seat or desk may be adjusted to a height to suit any individual student.

The specific object of the invention is to provide simple, practical and reliable means for effecting the longitudinal extension or contraction of the support and effectively locking the relatively adjustable members of the support when they have been adjusted to the desired relation to each other.

With the above and other objects in view, the nature of which will more fully appear as the description proceeds, the invention consists in the novel construction, combination and arrangement of parts as herein fully described, illustrated and claimed.

In the accompanying drawings:—Figure 1 is a side elevation of a furniture support embodying the present invention. Fig. 2 is an enlarged detail longitudinal section through the central portion of the support illustrating the catch. Fig. 3 is a similar view, showing the means for displacing the catch and operating the movable section on the support. Fig. 4 is a plan view of the catch. Fig. 5 is a detail front elevation of the upper end of the lower section of the support. Fig. 6 is a plan view of the adjusting device.

As shown in Fig. 1 the support as a whole comprises a lower tubular section 1 which is provided with a supporting base 2 adapted to rest on the floor and if desired to be secured thereto, and an upper telescopic member 3 which is slidably mounted in the lower section and is provided at its upper end with a supporting top 4 upon which a seat or desk or similar smaller article may be secured. The lower section 1 is split for a portion of its length from its upper edge downward a suitable distance to adapt the said upper portion to be sprung and clamped around the upper section which fits into the same as shown in Figs. 1, 2 and 3. The

lower section is also provided with substantially parallel extensions or wings 5 through which passes a clamping device 6 shown in the form of a tap screw or bolt, which passes through an opening in one of the wings or extensions and is threaded into an oppositely located opening in the other wing or extensions so that by tightening said bolt, the split portion of the lower section may be drawn tightly around the upper end of the section 3 in order to prevent any possibility of relative longitudinal movement between the two sections. The upper section 2 is provided along one side with a longitudinal rack 7 comprising a series of notches 8 any one of which is adapted to receive the correspondingly formed nose or point 9 of a catch 10 which is movable in a plane perpendicular to the rack, said catch being mounted in guideways 11 formed in the inner faces of the wings or extensions 5. This catch is provided with an upwardly extending shoulder 12 the inner portion of which is beveled as shown at 13 the said beveled face 13 being adapted to cooperate with the pointed extremity 14 of an operating device which as shown in Fig. 6 comprises a toothed spindle or pinion portion 15 and a crank portion 16 whereby the toothed or pinion portion 15 may be turned after inserting the same through an opening 17 in one of the wings or extensions 5, the opposite wing or extension 5 being provided with a socket 18 to receive the pointed extremity of the operating device.

In inserting the operating device, the pointed extremity thereof strikes against the beveled face 13 of the catch and cooperates therewith to urge the catch outward away from the rack thus forcing the engaging point or nose 9 out of engagement with the rack thereby leaving the upper section 3 of the support free to be moved up and down which is accomplished by revolving the toothed or pinion portion of the operating device and causing the teeth thereof to mesh with the teeth of the rack 7, the telescopic upper section 3 of the support being correspondingly moved upward and downward according to the direction in which the operating device is turned. The catch 10 is normally placed inward into interlocked engagement with the rack 7 by means of a spring 19 the inner end of which fits into a socket in the shoulder 12 on the catch as indicated by dotted lines in Figs. 2 and 3,

the outer end of said spring bearing against a spring supporting bar 20 which extends across between the wings 5 and has its opposite extremities fitted within or behind inwardly extending flanges 21 on the inner faces of the wings or extensions 5 as indicated in the drawings. The construction just described enables the spring supporting bar 20 to be removed from the support by sliding the same in an upward direction, after which the spring and catch referred to may be also detached. After the desired adjustment is effected between the two relatively slidable sections on the support, the operating device is withdrawn from the opening 17 which permits the spring 19 to act and thrust the catch 10 inward into interlocked engagement with the rack 7 thereby preventing any further sliding movement of the upper section of the support. The clamping device 6 is then tightened thus drawing the split upper portion of the lower section tightly around the upper section which makes the device as a whole absolutely secure and reliable.

I claim:—

1. A supporting standard for school furniture comprising a tubular lower section provided with a supporting base, an upper section fitted telescopically into the lower section and provided with a supporting top, a rack on the upper section, and a displaceable spring sustained latch on the lower section normally interlocked with the rack on the upper section, said latch being provided with a beveled shoulder, substantially as and for the purpose described.

2. A supporting standard for school furniture comprising a tubular lower section provided with a supporting base, an upper section fitted telescopically into the lower section and provided with a supporting top, a rack on the upper section, and a displaceable spring sustained latch on the lower section normally interlocked with the rack on the upper section, said latch being provided with a beveled shoulder, in combination with a removable rack actuating device having a beveled point for coöperation with the beveled shoulder of the latch.

3. A supporting standard for school furniture comprising a tubular lower section

provided with a supporting base and split longitudinally from its upper end downward for a portion of its length, an upper section fitted telescopically into the lower section and provided with a supporting top, a rack on the upper section, a displaceable spring sustained latch on the lower section normally interlocked with the rack on the upper section, a latch displacing rack operating device removably fitted to the lower section, and a clamping device operating to draw the split portion of the lower section tightly around the upper section.

4. A supporting standard for school furniture comprising a tubular lower section provided with a supporting base and split longitudinally from its upper end downward for a portion of its length, parallel wings on the lower section at opposite sides of the split formed therein, said wings being provided with guideways, a displaceable spring sustained latch on the lower section slidably mounted in said guideways, an upper section fitted telescopically into the lower section and provided with a supporting top, a rack on the upper section, and a clamping device passing through said wings and operating to draw the split portion of the lower section tightly around the interfitted portion of the upper section.

5. A supporting standard for school furniture comprising a tubular lower section provided with a supporting base, substantially parallel wings extending laterally from the lower section and provided with inwardly extending stop flanges, an upper section fitted telescopically into the lower section and provided with a supporting top, a rack face on the upper section, a displaceable spring sustained latch on the lower section normally interlocked with the rack on the upper section, a removable spring supporting bar confined in place by the flanges on the wings, and a spring interposed between said bar and the latch, substantially as described.

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

WILLIAM A. PROCTOR.

Witnesses:

ALBERT L. NICHOLS,
WILLIAM F. WEICK.