No. 731,206. PATENTED JUNE 16, 1903.

J. A. McLAUGHLIN.

SCHOOL DESK.

APPLICATION FILED OCT. 11, 1902.

NO MODEL.

Fig. 1.

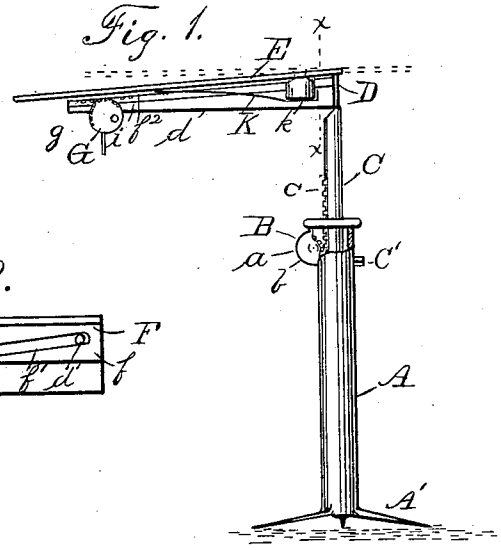


Fig. 2.

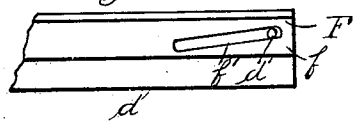


Fig. 3.

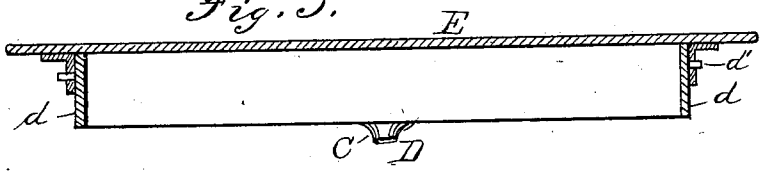


Fig. 4

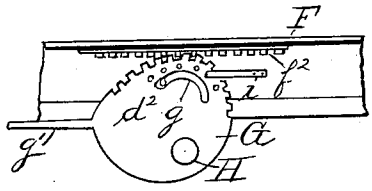
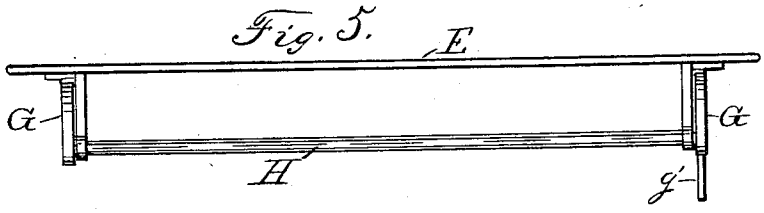


Fig. 5.



WITNESSES:

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No. 731,206. Patented June 16, 1903.

UNITED STATES PATENT OFFICE.

JAMES A. McLAUGHLIN, OF STATESBORO, GEORGIA.

SCHOOL-DESK.

SPECIFICATION forming part of Letters Patent No. 731,206, dated June 16, 1903.

Application filed October 11, 1902. Serial No. 126,914. (No model.)

To all whom it may concern:

Be it known that I, JAMES A. McLAUGHLIN, a citizen of the United States, residing at Statesboro, in the county of Bulloch and State of Georgia, have invented certain new and useful Improvements in School-Desks; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The object of my invention is to construct a desk in the interest of comfort and good health for scholars and others requiring a desk-surface which may be set at varying angles and which will also be cheap and durable. My desk is vertically and laterally adjustable in its entire body, and its top is in addition capable of being tilted and moved forward and backward.

The accompanying drawings illustrate the invention, in which—

Figure 1 is a reduced side elevation; Fig. 2, an end of an arm and batten; Fig. 3, a section on line x x of Fig. 1 viewed from the front. Fig. 4 is an enlarged detail of the lifting device, and Fig. 5 is the front of the top and its connections.

Like letters of reference denote corresponding parts in the several views.

A indicates the fixed vertical post which supports the desk. It preferably stands on three legs A′, is hollow, and has bearings a for the shaft of a small sprocket-wheel B, having a thumb-piece b, by which the wheel is turned. The teeth of wheel B engage the teeth c of post C, which moves vertically in the post A.

C′ is a set-screw to tighten the post C in the base-post A. A frame having the back D and arms d d is supported by the post C and is preferably cast integrally with it, the middle of the back D resting on the post. The arms d are somewhat tapered and inclined downward toward the front. They are furnished also with lateral pins d' d^2 near their ends on the outer side. The top E is strengthened by battens F, having vertical flanges f, provided with inclined slots f' to engage pins d' at the rear of the arms d. These pins and slots hold the rear part of the top securely on the frame, but permit a forward and backward movement thereof. The front part of the top is held by pins d^2, which engage slots g in cams G. These cams are fixed on a rod H, which extends across the front part of the frame and is journaled in hangers on the arms d. The cams have peripheral teeth to engage ratchets f^2 on the battens, and on one or both is provided a short lever g', by the operation of which the top is brought up to a level and pushed backward and forward, as shown in dotted lines in Fig. 1. The movement is stopped at any desired point by the engagement of a pin on a spring i, fixed on the frame, with notches i' on the cam. A spring K, fixed on the under side of the top outside of the frame, supports an ink-receptacle k against a hole in the top.

What I claim, and desire to secure, is—

1. In a desk having a normally inclined and adjustable top a shaft suitably journaled across the front of the desk, cams thereon having peripheral teeth, ratchets on the under side of the top engaged by said teeth and a lever to operate the cams, whereby the top is raised to a level and moved backward and forward and lowered again as described.

2. In a desk having an inclined top a shaft journaled across its front part, cams on said shaft peripheral teeth on the cams, ratchets on the under side of the top engaged by said teeth, a curved slot in each cam, pins on the top adapted to engage said slot and means to operate said cams, for the purpose herein set forth.

3. In a vertically-adjustable desk having a movable top, a shaft journaled across its front part, cams on said shaft, peripheral teeth on said cams, ratchets on the top engaged by said teeth, curved slots in the cams, pins on the top to engage said slots, battens on the top, flanges on said battens, straight slots in said flanges, pins on the desk-frame to engage said straight slots and a lever to actuate said cams for the purpose specified.

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

JAMES A. McLAUGHLIN.

Witnesses:

ALLEN C. CLARK,

APPLETON P. CLARK.