

G. W. PUTERBAUGH & A. E. TEAL.

SCHOOL DESK AND SEAT.

No. 173,340.

Patented Feb. 8, 1876.

Fig. 1.

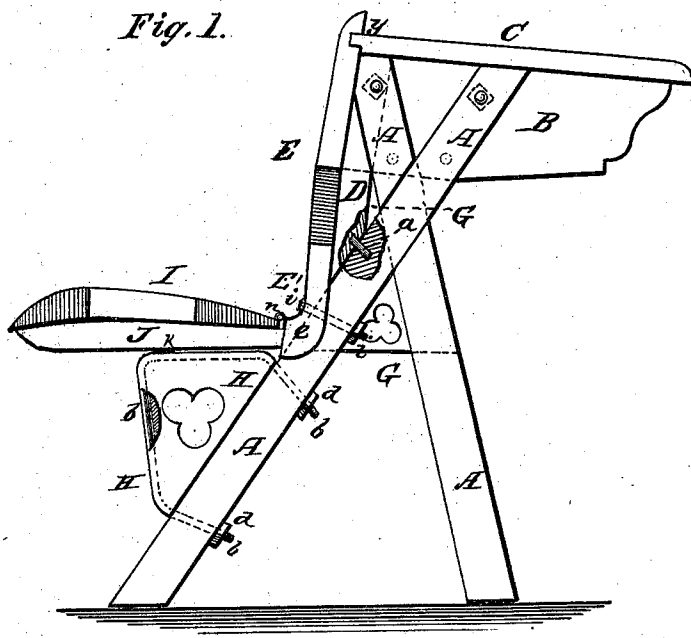


Fig. 2.

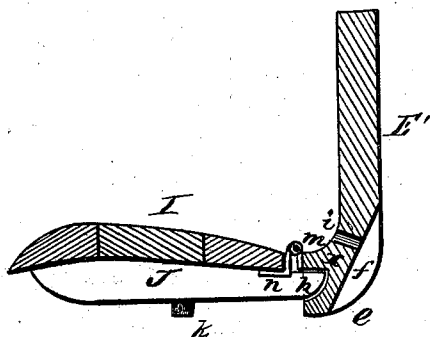
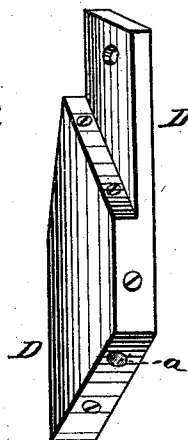


Fig. 3.



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IMPROVEMENT IN SCHOOL DESKS AND SEATS.

Specification forming part of Letters Patent No. **173,340**, dated February 8, 1876; application filed July 19, 1875.

To all whom it may concern:

Be it known that we, GEO. W. PUTERBAUGH and ALFRED E. TEAL, of Greenfield, in the county of Hancock and State of Indiana, have invented certain new and useful Improvements in School-Desks; and we do hereby declare that the following is a full, clear, and exact description thereof, which 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 nature of our invention consists in the construction and arrangement of a school-desk, as will be hereinafter more fully set forth.

In the annexed drawing, Figure 1 is a transverse vertical section of our school-desk. Figs. 2 and 3 are detached views of parts thereof.

The side pieces of our school-desk are each formed of two legs, A A, which cross each other above the lower edge of the back of the seat, and are halved into each other. B is the book-case, fastened between the legs, and C is the top, resting thereon. In the front angle of the legs A, on each side, is a brace, D, which forms a support for the back E, and also serves to prevent end shake on the desk. The lower end of the brace is mitered onto the front leg, and doweled at *a*. The upper end of the brace is halved onto the inner side of the upper end of the rear leg, and lies against the end of the book-case B, all three pieces being bolted and screwed firmly together.

On the inside of the legs is a wooden lining, G, extending from the lower edge of the back up to the book-case, for the purpose of strengthening the legs. To the front leg, on each side, is bolted a bracket, H, to form a support for the seat. It is bolted to the leg by means of a bolt, *b*, passing around the front and upper sides of the bracket in a groove made therein, the ends of the bolt passing through the leg, and fastened by nuts *d* on the rear side thereof.

The back E is made, as usual, of several pieces, the lower piece E' of which is made of thicker lumber than the balance, to allow a curve, *e*, in front to form the corner of the seat, and a gain, *f*, is cut on the back of the same to come down over the front of the leg,

where it is secured by a bolt, *i*, passing through the leg, which, in connection with the brace D, prevents end shake on the desk. I is the seat, provided with arms or battens J J on the under side, which rest on the brackets H H, and are provided at their inner ends with tenons *h*, which work into mortises *x* in the part E' of the back, to prevent any upward strain on the hinge. The seat I is hinged to said part E' by hinges having their back flaps *m* straight, and secured to the front side of said piece E', and the front flaps *n* secured to the back edge of the seat, and then bent forward and secured to the bottom of the seat also, so as to hide all of the hinge except the upper edge of the joint between the seat and back.

The top piece of the back E and the top C are joined together by means of a tongue and groove, as seen at *y*, to give the desk further strength.

Bumpers *k* of elastic material are placed in the battens J, so that when the seat is let down in place the said bumpers come in contact with the brackets H, near the outer end thereof, which prevents all noise and furnishes a spring for the seat.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The combination of the crossed legs A A and the brace D, constructed and arranged as and for the purposes herein set forth.
2. The grooved bracket H, attached to the front leg A by means of bent bolt *b* and nuts *d*, as shown and described.
3. The bottom piece E' of the back, constructed, as described, with the curve *e* and gains *f*, substantially as and for the purposes herein set forth.
4. The combination of the hinged seat I with battens J J, having tenons *h*, the brackets H H, and the lower back piece E', provided with mortises *x*, substantially as and for the purposes herein set forth.

In testimony that we claim the foregoing as our own we affix our signatures in presence of two witnesses.

GEORGE W. PUTERBAUGH.
ALFRED E. TEAL.

Witnesses:

L. C. THAYER,
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