

J. W. CHILDS.

MEANS FOR FASTENING THE BACK AND SEAT STRIPS OF  
SCHOOL DESKS AND SETTEES.

No. 184,589.

Patented Nov. 21, 1876.

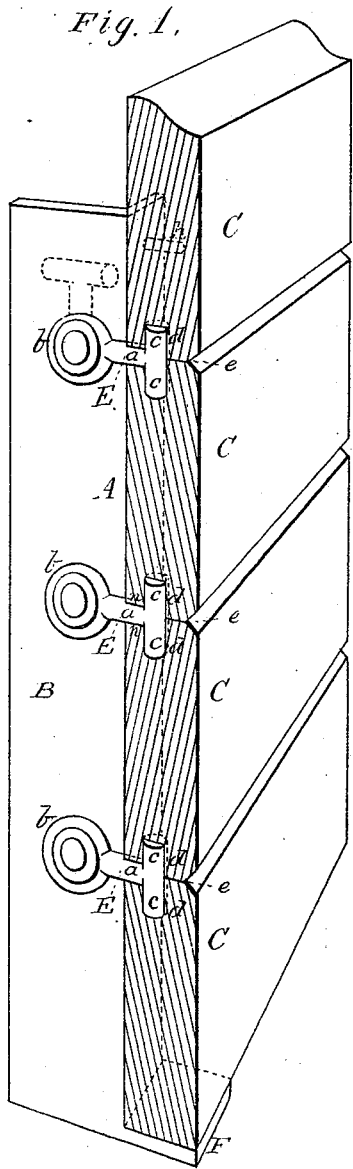


Fig. 1.



Fig. 3.

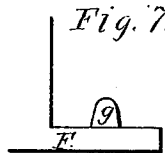


Fig. 7.

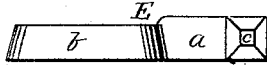


Fig. 4.

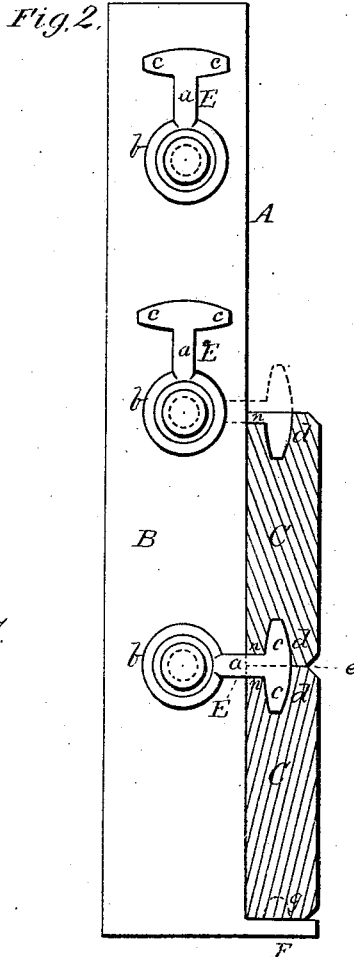


Fig. 2.

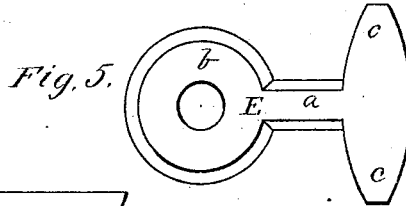


Fig. 5.

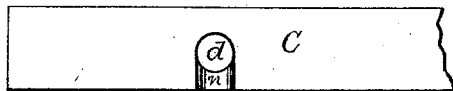


Fig. 6.

WITNESSES

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# UNITED STATES PATENT OFFICE.

J. WALLACE CHILDS, OF KANSAS CITY, MISSOURI.

## IMPROVEMENT IN MEANS FOR FASTENING THE BACK AND SEAT STRIPS OF SCHOOL-DESKS AND SETTEES.

Specification forming part of Letters Patent No. 184,589, dated November 21, 1876; application filed September 23, 1876.

### *To all whom it may concern:*

Be it known that I, J. WALLACE CHILDS, of Kansas City, in the county of Jackson and State of Missouri, have invented a new and valuable Improvement in Means for Fastening the Back and Seat Strips of School-Desks and Settees; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a perspective sectional view of this invention applied to a seat-back. Fig. 2 is a transverse vertical section. Fig. 3 is a cross-section of the back-strip. Fig. 4 is an edge view of the anchor. Fig. 5 is a side view of the same. Fig. 6 is an edge view of the slat, showing the recess and its neck. Fig. 7 is a detail view of the head-flange of the arm.

This invention has relation to means for fastening the strips on the backs and seats of school-desks, settees, and other analogous articles; and it consists mainly in the construction and novel arrangement, in connection with an arm or standard of the frame, of anchor-hook or shanked fastening, adapted to engage with a recess or recesses in one or both of the contiguous edges of adjacent strips, as hereinafter shown and described.

In the accompanying drawings, the letter A designates a standard or arm of the frame, to which the strips are designed to be secured. This arm may have any appropriate form, and is usually provided with a longitudinal flange or flanges, to or between which the anchors or hooks are secured. B represents a single edge flange, at right angles with the body of the arm or standard. C indicates the slats or strips of the seat or back. These are designed to fit neatly together edge to edge, when secured to the arm or standard A, and are provided with holes or recesses in their edges, as indicated at *d*. E represents a shanked hook or fastening having one or more entering arms or projections, *e*, at the end of the shank *a*. At the other end of the shank an expansion or enlargement, *b*, is provided, whereby the fastening is secured to the arm or standard. This

may be done by riveting the expansion to the arm or standard, or by dovetailing it into a suitable groove therein, or in any other convenient manner. In the construction illustrated in the drawings at Figs. 1 and 2 the expansion of the hook or anchor is riveted to the standard-flange. These fastenings are secured to the arms or standards at proper distances apart, to correspond with the crevices *e* between the strips C when in position. The shanks *a* of said fastenings extend between the contiguous edges of the strips, and are received in transverse grooves *n*, extending outward or downward, as the case may be, from the recesses *d*, into which the arms or projections of the fastenings are seated. These arms or projections are at right angles, or nearly so, with the shank *a*, and parallel with the standard or arm of the frame. F indicates a lug or flange of the arm or standard, designed to project over the edge of the first slat, and it is provided with a stud or projection, *g*, to enter a corresponding recess in said slat, thus securing one edge thereof firmly. The other slats are successively pressed edge to edge against this slat and against each other, the anchors or hooks being introduced between the same, as above described, and when the last slat is in place it is secured by a screw, *h*, or in any other suitable manner. The slats and fastenings are successively engaged with each other, first a slat and then a fastening, the latter being capable of turning on their rivets or pivots, or being otherwise arranged to have a certain amount of movement, reciprocating or rotary, to provide for the placing of the slats and the subsequent engagement of the projections of the shanked fastenings therewith. The ends of these fastenings being securely attached to the slats and arms respectively, the shanks *a*, recessed in the edges of the slats, form the bonds between them, and are for the most part hidden out of sight.

This invention is designed to provide a strong and economical fastening, which, by keeping the slats flush with each other, will prevent inequalities or ridges in the seats or backs; and in addition it is designed to facilitate the transportation of such furniture, as

the slats can be easily connected to or disconnected from the standards or arms.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The arm or standard A, having hooks or anchors projecting from its edge, and a studded head-flange, substantially as specified.

2. The seat or back slats, having edge recesses to receive the arms of the fastenings, and transverse edge grooves to receive the shanks thereof, substantially as specified.

3. The combination, with edge-recessed seat or back strips and the arms or standards of

the frame, of movable shanked fastenings, having entering projections, at right angles with their shanks, to enter the edge recesses of said strips, substantially as specified.

4. The anchor E, substantially as and for the purposes set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

J. WALLACE CHILDS.

Witnesses:

L. F. SYMMES,  
HENRY A. WHITE.