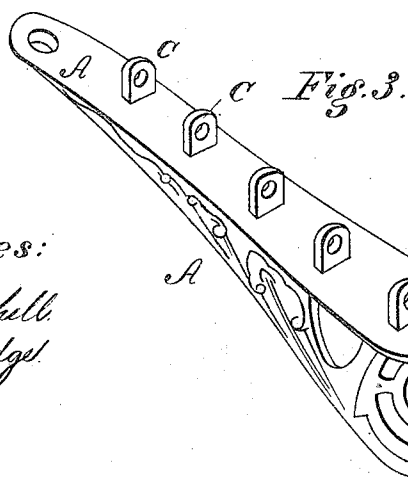
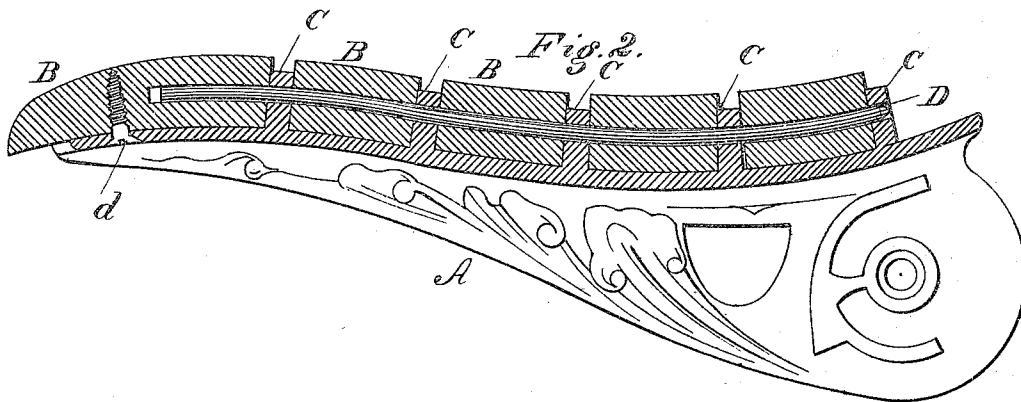
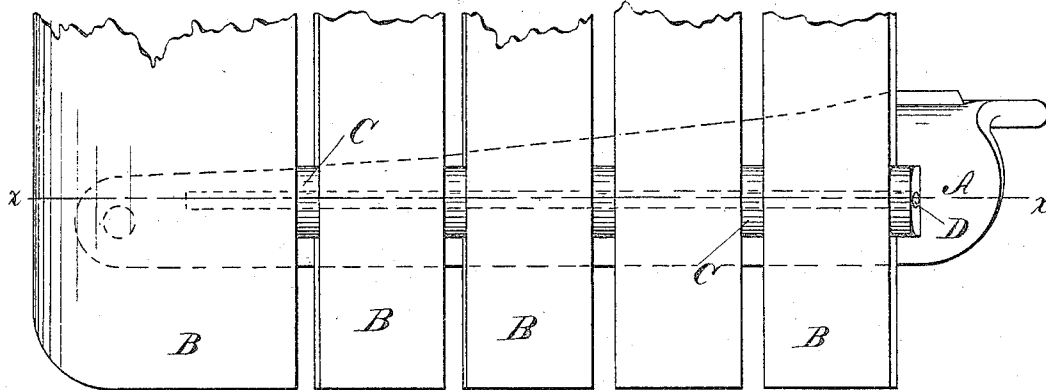


E. G. DURANT.
SCHOOL FURNITURE.

No. 172,401.

Patented Jan. 18, 1876.

Fig. 1.



Witnesses:
Dennis Tintchell.
Will H. Dodge.

Inventor:
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By his attys.
Dodge & Son.

UNITED STATES PATENT OFFICE.

EDWARD G. DURANT, OF RACINE, WISCONSIN.

IMPROVEMENT IN SCHOOL-FURNITURE.

Specification forming part of Letters Patent No. 172,401, dated January 18, 1876; application filed December 4, 1875.

To all whom it may concern:

Be it known that I, EDWARD G. DURANT, of Racine, in the county of Racine and State of Wisconsin, have invented certain Improvements in the Method of Manufacturing or Constructing School-Desks, Settees for Schools, Churches, Halls, &c., of which the following is a specification:

My invention relates to that class of furniture in which the seats and backs are formed of a series of parallel wooden slats; and the invention consists in securing the slats in place by providing the sustaining arm or standard with lugs to enter spaces between or in the slats, and passing a fastening wire or rod transversely through the slats and lugs, as hereinafter described.

Figure 1 represents a plan or face view of one end of a seat constructed on my plan; Fig. 2, a cross-section of the same on the line *x x*; Fig. 3, a perspective view of the sustaining-arm.

A represents the metal sustaining or supporting arm, on which the slats B are mounted; C, the lugs, cast upon the face of the arm in such position as to enter between the slats; and D, the fastening-wire, passing through the series of lugs and slats, and holding the latter securely and firmly in place.

As shown in Fig. 3, the arm is cast complete in one piece with the series of lugs upon it, the holes being subsequently drilled through the lugs to receive the fastening-wire.

When the lugs are arranged, as shown, to enter between the slats, the latter are held apart and a ventilated seat produced; but when the openings between the slats are objectionable, recesses may be made in the edges or in the middle of the slats to receive the lugs, in which case the slats can be arranged in contact with each other.

In order to conceal the outer end of the fastening-wire, it is extended only part-way through the last slat, and the latter secured by a screw, *d*, inserted through the supporting-arm, as shown in Fig. 1.

Instead, however, of employing the screw, a lug may be arranged to enter a mortise or recess in the outside slat, and receive the end of the fastening-wire.

When the lugs are all to enter recesses in

the middle of the slats, the drilling of the holes may be avoided by making the lugs of a hook form, so that they can be drawn from the mold, in which case the recesses in the slats will hold the lugs from moving laterally, while the wire, bearing under the hooks, will hold the slats down in place.

It is obvious that my improvements may be applied to the seats and backs, and, in some instances, to other portions, of all articles of furniture in which parallel slats are employed, and also that the form of the lugs, the form of sustaining arms or standards, and the form and arrangement of the slats, are immaterial, provided the lugs and wire hold the slats in place.

It is also obvious that instead of using a single wire or rod to secure the entire series of slats in the back or seat, two or more short ones may be employed; that instead of the metal wire or rod, wooden ones may be employed; and that, in some instances, the holes in the lugs may be cast instead of drilled.

My construction is not only cheap and strong, but also possesses the advantage of permitting the furniture to be readily taken apart and as readily set up by unskilled persons.

Having thus described my invention, what I claim is—

1. The combination, in a seat or similar article of furniture, of a sustaining arm or standard provided with lugs, a series of parallel wooden slats applied to said arm, and a pin or pins passing through the slats and lugs to hold the former in place, substantially as shown and described.

2. The combination of the metal arm A, provided with lugs C, the slats B, and the fastening pin or wire D, substantially as shown.

3. A cast-metal arm or standard, A, for seats, or similar articles of furniture, provided with lugs C, which are adapted to receive wooden slats and a fastening pin or wire, substantially as shown.

EDWARD G. DURANT.

Witnesses:

L. S. PORTER,
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