





# UNITED STATES PATENT OFFICE.

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## CHAIR-SEAT.

SPECIFICATION forming part of Letters Patent No. 667,591, dated February 5, 1901.

Application filed June 8, 1900. Serial No. 19,584. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE M. SMITH, a citizen of the United States, residing at Readsborough, in the county of Bennington and State of Vermont, have invented certain new and useful Improvements in Chair-Seats; and I do hereby 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.

This invention relates to wooden chair seats or bottoms, the purpose being to improve and strengthen the seat, as well as to add to its appearance and durability.

The seat is designed for all manner of chairs, settees, and the like, and comprises a frame and a bottom, the latter being composed of layers of veneer and having its edge portions let into grooves in the inner edges of the frame.

The improvement consists, essentially, of a roll at the front end of the seat having its end portions overlapping the extremities of the side bars of the frame and attached thereto and to the front bar. This roll besides giving a finished appearance to the seat materially strengthens it and prevents the side bars of the frame from outward displacement even though its glue-joints with the front bar should become loose.

The improvement consists of the novel features, details of construction, and combinations of parts which hereinafter will be more particularly set forth, illustrated, and finally claimed.

Referring to the drawings forming a part of the application, Figure 1 is a perspective view of a chair-seat, showing the application of the invention, parts being broken away. Fig. 2 is a longitudinal section. Fig. 3 is a front view, parts being broken away. Fig. 4 is a cross-section showing the seat upholstered.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The frame comprises a rear bar 1, a front bar 2, and side bars 3, jointed at their ends to the front and rear bars by dowel-pins in any usual way, said parts being glued when fitted together. A groove 4 is formed in the inner edge of each bar to receive the adja-

cent edge portion of the seat 5. The groove 4 is nearer the top side of the bar, so as not to have the seat set in too far and provide an objectionable offstanding portion at the edges thereof. The corners of the portions of the side bars above the plane of the seat are rounded, as shown, so as to be less objectionable and prevent injurious pressure against the occupant of the chair or like article to which the invention is applied. While the seat is set into the frame after the fashion of a panel, it is preferred to have a minimum amount of the frame projecting above the plane of the seat. By having the edge portions of the seat fitted into the grooves of the frame they are protected and are not liable to be splintered, and extraneous fastenings are entirely unnecessary. By grooving the frame bars fastening-strips are not necessary to secure the seat in place and the cost of construction is minimized and the number of joints reduced to the smallest amount possible.

The seat 5 is composed of a number of veneers cemented together in the well-known manner and disposed with the grain of one crossing the grain of the adjacent veneer. In the present formation of the seat four veneers are employed, this number being found to give the best possible results. In order to facilitate the entrance of the edge portions of the seat into the grooves 4, the sides bordering upon the edges are slightly beveled. It is not necessary to secure the seat in the grooves by glue or other cementitious material. Hence provision is had for contraction and expansion incident to atmospheric changes.

The seat is placed in position when assembling the companion parts of the frame, and after the latter has been jointed the front roll 6 is fitted to the front bar 2 and the front ends of the side bars 3, the end portions of the roll overlapping the latter and being secured thereto. The roll 6 is also secured to the front bar 2, as well as to the extremities of the side bars 3. By having the end portions of the front roll overlap the ends of the side bars and secured thereto said side bars are prevented from spreading or outward displacement should the glue-joints between them and the front bar loosen from any cause. Fastenings 7, such as screws, secure the front



roll 6 to the bar 2 and front ends of the side bars 3, and in addition said roll is glued to the several bars, thereby providing a firm, rigid, and substantial joint.

5 The seat curves slightly from front to rear to secure comfort and a neat appearance, and the top side of the front bar 2 curves forwardly and downwardly, as well as the front ends of the side bars 3. The roll 6 forms a  
10 continuation of the front curvature of the seat and adds materially to the appearance and comfort of the person occupying the chair of which the seat forms a part.

It is contemplated to upholster the seat, and  
15 such construction is shown in Fig. 4, in which the filling 8 is held in place by the cover 9, the latter being secured at its edges in the grooves 4 by the seat 5, about the edge portions of which the cover is fitted.

20 Having thus described the invention, what is claimed as new is—

1. In a bottom for chairs and the like, a frame comprising side bars, a front bar fitted between the front ends of the side bars and  
25 jointed thereto, a roll fitted against the front bar and the forward ends of the side bars, and means positively connecting the roll to the said front and side bars, substantially as set forth.

2. In a bottom for chairs and the like, a 30 frame comprising a front bar curved forwardly and downwardly, side bars embracing the ends of the front bar and jointed thereto and having their front end portions curved forwardly and downwardly to correspond to 35 the curvature of the said front bar, a roll fitted against the front bar and the forward ends of the side bars and curved to form a continuation of the curvature thereof, and means for positively connecting the roll to 40 the said front bar and the forward ends of the side bars, substantially as set forth.

3. In a chair-bottom, a frame having its bars grooved in their inner edges, a seat having its edge portions fitted in the grooves of 45 the frame-bars, and upholstery applied to the seat and consisting of filling and a covering, the latter having its edge portions drawn about the edges of the seat and secured thereby in the grooves of the frame, 50 substantially as described.

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

GEORGE M. SMITH. [L. S.]

Witnesses:

M. E. WHITE,  
J. C. LAUGHNA.