W. D. SCHMITS.

CHAIR SEAT.

APPLICATION FILED APR. 8, 1913.

1,075,500. Patented Oct. 14, 1913.

Fig. 1.

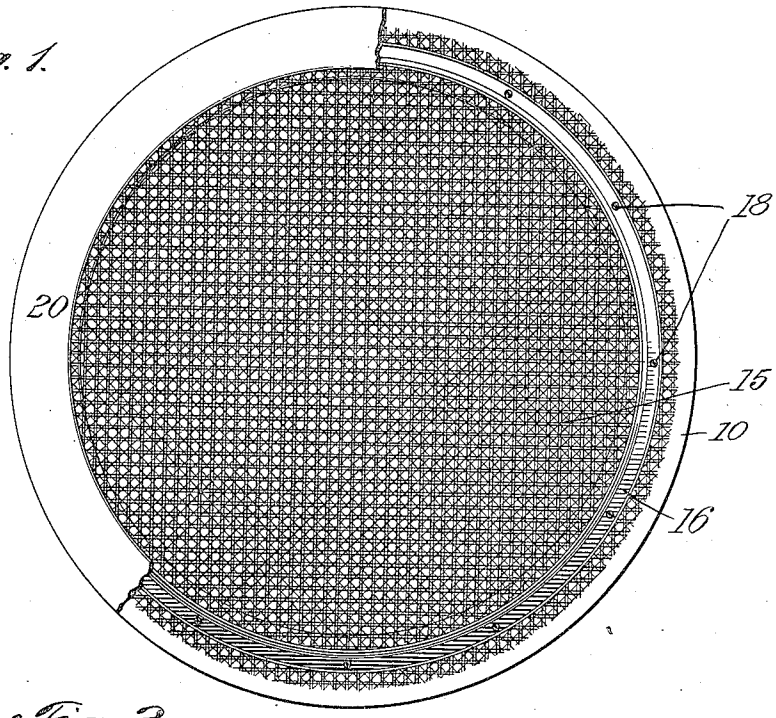


Fig. 2.

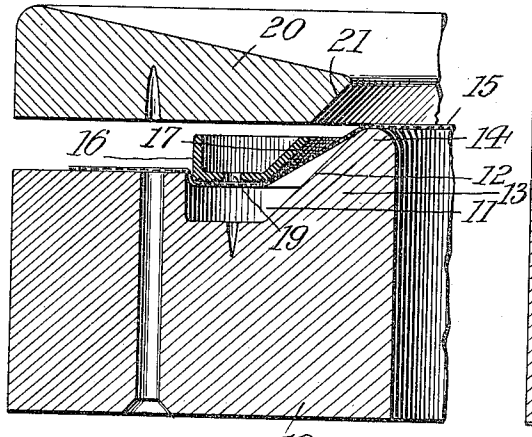
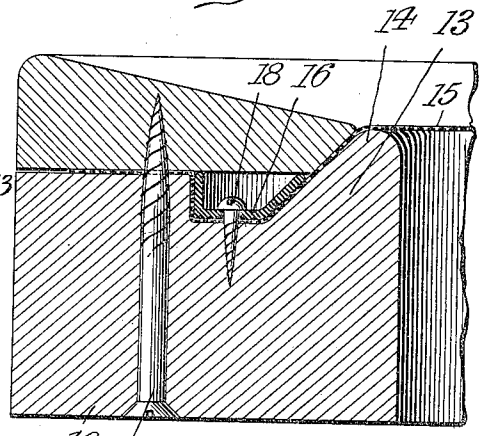


Fig. 3.



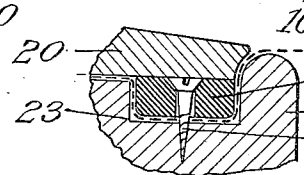


Fig. 4.

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UNITED STATES PATENT OFFICE.

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CHAIR-SEAT.

1,075,500. Specification of Letters Patent. Patented Oct. 14, 1913.

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To all whom it may concern:

Be it known that I, WALTER D. SCHMITS, a citizen of the United States, residing at New York city, county and State of New York, have invented a new and Improved Chair-Seat, of which the following is a specification.

This invention relates to a chair seat of novel construction which is so constituted that the chair bottom may be readily attached to the seat frame, so that in this way, a worn bottom may be quickly removed and replaced.

The construction of the parts is such that the seat joint is effectively concealed, and that by the operation of attaching the bottom to the frame, a high degree of tension is imparted to the bottom.

The invention also comprises the various features of construction more fully pointed out in the specification and appended claim.

In the accompanying drawing: Figure 1 is a plan partly broken away of a chair seat embodying my invention; Fig. 2 an enlarged cross section through the seat frame, showing the bottom and coöperating parts detached; Fig. 3 a similar section showing the bottom attached, and Fig. 4 a section through a modified form of the bottom clamping means.

The suitably shaped seat frame 10 of a chair or similar article of furniture is provided on its upper side with a continuous groove 11, the inner wall 12 of which is shown to be tapering, so that there is formed between the groove and the frame-opening an upwardly extending ledge 13, which ledge has a rounded top 14.

The chair bottom 15 made of cane or other flexible material is so dimensioned that it passes over ledge 13 and bridges the groove 11 of frame 10, the rounded edge 14 of the ledge preventing the bottom from being torn when subjected to tension.

Within groove 11, there is adapted to be received a metal clamping ring 16, the configuration of which corresponds substantially to that of the groove. Thus with the construction shown, the inner side 17 of the ring is flared to correspond to the flare of wall 12, while furthermore the ring is shown to be hollowed for the purpose of reducing its weight. To secure the chair bottom 15 to the seat frame 10, the clamping ring 16 is superimposed upon that portion of the bottom that extends over the groove 11 (Fig. 2), and is then drawn down into the groove by means of screws 18 that pass through apertures 19 of the ring and through the bottom 15 into the body of frame 10 beneath the groove. By this downward movement of the ring, the bottom 15 will become stretched over the rounded top 14 of ledge 13, it being held in its taut state by being wedged between the frame and ring.

In order to increase the hold of the ring 16 upon the bottom 15, the lower face of the ring and its flaring side 17 may be roughened as shown. Upon the seat frame constructed as described, there is placed a covering frame 20, the general configuration of which corresponds to that of the seat frame. This covering frame 20 is made wedge-shaped in cross section, its upper inclined face gradually approaching its lower horizontal face from the outer toward the inner edge of the frame. The width of the covering frame is preferably such that it will overlie the seat frame 10, it being preferably flush with the outer edge of the frame, while its inner edge is beveled as at 21 to engage the inclined outer wall of ledge 13 above ring 16 and chair bottom 15. The correlation of the parts described is such, that the inclined upper face of frame 20 merges along its inner edge into the rounded top 14 of ledge 13 which is flush with said face, so that in this way a dished continuous seating surface is provided. After the covering frame has been placed upon the chair frame, it is attached thereto by screws 22 passing upwardly from the latter into the former. By the construction described, the covering frame will owing to its beveled edge 21 assist the ring 16 in holding the chair bottom in place, while the tapering form of the covering frame, not only presents a neat finish, but also renders the seat more comfortable to the occupant.

Whenever the chair bottom is worn, the covering frame 20 and the ring 16 are successively unscrewed, the old chair bottom is taken out, a new bottom is applied, and then the ring and covering frame are again attached. In this way, the substitution of a new bottom for an old bottom can be effected in a quick, simple and accurate manner, while furthermore the bottom will be thoroughly tightened up and attached to the chair frame in a firm and reliable manner.

It is obvious that the form of the groove in the seat frame as well as the form of the

clamping ring may be changed without departing from the spirit of my invention. Thus as shown in Fig. 4, the frame 10 may be provided with a groove 23 of rectangular cross section, while the clamping ring 24 is solid and has a configuration corresponding to that of the groove.

I claim:

A chair seat comprising a seat frame having a groove, and an upwardly extending rounded ledge located between said groove and the frame-opening, a chair bottom extending over the ledge into the groove, a clamping ring seated within the groove and engaging the chair bottom, and a covering frame having an upper inclined face that gradually approaches its lower horizontal face from the outer toward the inner edge of the frame, the inner edge of the covering frame abutting against the outer wall of the ledge, while the inclined upper face of said covering frame is flush with the rounded top of the ledge.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."