

March 4, 1941.

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CHAIR SEAT AND BUMPER GUARD

2,233,694

Filed Jan. 22, 1940

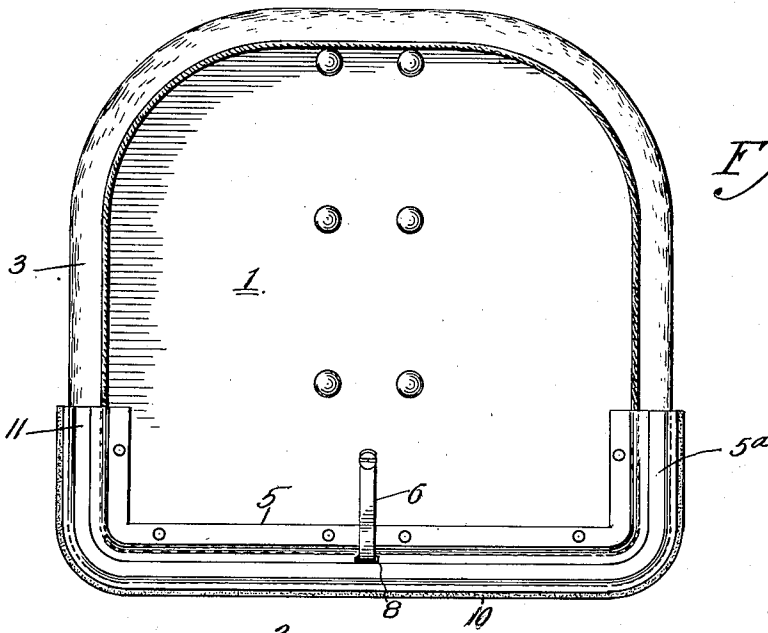


Fig. 1.



Fig. 2.

Fig. 3.

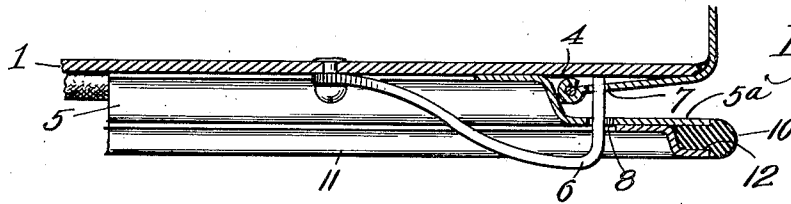


Fig. 4.

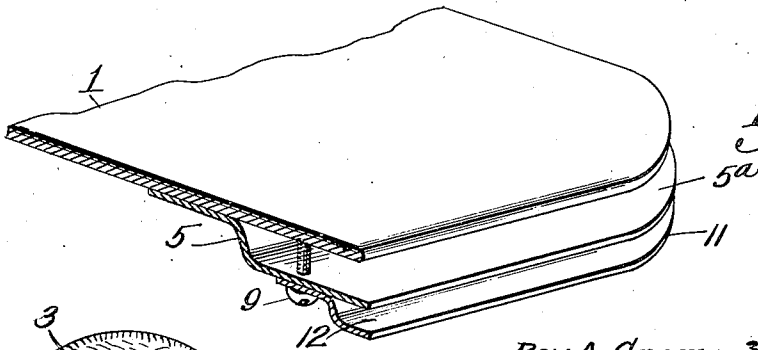


Fig. 5.

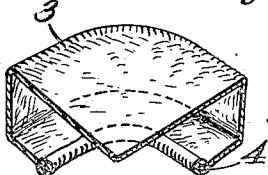


Fig. 6.

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UNITED STATES PATENT OFFICE

2,233,694

CHAIR SEAT AND BUMPER GUARD

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Application January 22, 1940, Serial No. 315,104

8 Claims. (Cl. 155—182)

This invention relates to chair seats and one of its objects is to provide a seat with a bumper guard to prevent injury to the chair seat or to objects with which the chair seat may be brought into contact.

Another object of the invention is to produce a bumper guard of the character mentioned which is adaptable for use with seats having removable covers of that type having their margin underlying the seat.

A further object of the invention is to produce a removable seat cover securing means to hold the seat cover in position and center the cover on the chair seat.

A still further object of the invention is to provide means whereby the seat cover can be locked in position against outward movement from under the seat, as well as to lock the same against creeping longitudinally around the chair seat.

With the general objects named in view and others as will hereinafter appear, the invention consists in certain novel and useful features of construction and organization of parts, as hereinafter described and claimed; and in order that it may be fully understood, reference is to be had to the accompanying drawing, in which:

Figure 1 is an inverted plan view of a chair seat embodying the invention.

Figure 2 is a broken front view with the chair seat in upright position.

Figure 3 is a fragmental side view of the same.

Figure 4 is an enlarged central vertical section of part of the chair seat.

Figure 5 is a sectional perspective view of the structure with the cushion and cover elements omitted and illustrating a modified form of securing member to keep the front edge of the cover from moving outwardly away from the centering means.

Figure 6 is a sectional perspective view of a front corner of the cover.

In the said drawing where like reference characters identify corresponding parts in all of the figures, 1 is a chair seat of wood, metal, or other material, the front edge of the present embodiment of the seat being straight and its rear edge curved. The seat plate 1 will be supported by any suitable legs or pedestal (not shown), and said seat may be provided with a rubber or other cushion 2, preferably secured to the seat plate 1 by a suitable adhesive, the seat being covered by a replaceable seat cover 3. The seat cover 3 overlies the seat and cushion and has its edge margin underlying the seat, any suitable means

being provided to draw the margins inwardly together below the seat, as by means of a marginal draw or resilient cord 4.

With seats and covers of the character disclosed it has been found preferable to provide the underside of the seat with centering means to keep the seat cover in proper position. In the preferred embodiment of the seat a step-shaped centering flange 5 is welded or otherwise secured to the underside of the plate 1, the riser or substantially vertical portion of said flange constituting a stop against which the margin of the seat cover is drawn. As shown, the centering flange 5 extends only along the front edge and a portion of the adjoining side edges of the seat, although it is apparent that it could extend around the entire contour of the seat, or the seat plate could be pressed downwardly to form the vertical centering wall, if desired. The margin of the cover 3 can be held in position against withdrawal from the flange 5 by means of one or more spring fingers 6 secured to the underside of the plate 1, said spring fingers passing through openings 7 in the cover, if desired, to prevent the margin of the cover from being drawn away from the centering flange.

If desired, the vertical wall of the flange 5 can be extended outwardly at right angles to form an extension flange 5a substantially parallel to and spaced from the underside of the member 1, thus providing, in conjunction with the seat plate 1, a seat having a channeled or slotted edge margin receiving the edge margin of the seat cover. With this type of construction the extension flange 5a may either have an opening 8 to accommodate the finger 6, or it may be tapped to receive a locking bolt 9 for securing the margin of the seat cover against displacement.

Where it is desired to provide a chair seat with a bumper guard, the flange portion 5a, forming the lower wall of the edge channel, extends outwardly to a vertical plane beyond that of the upper wall of said channel, i. e., the seat plate 1. With this construction accidental injury to the seat is avoided since the bumper guard flange 5a will take up the shock of contact before it is imposed on the edge of the seat. To avoid injury to objects with which the seat may contact, it is preferable to form the edge of the flange 5a with means to receive a shock-absorbing or cushioning element 10 of rubber or the like. One method of securing such an element is to weld or otherwise fasten a second step-shaped parallel flange 11 to the underside of the flange extension 5a, thus providing a bifurcated edge form-

ing a groove or slot 12, wherein the rubber bumper element 10 is wedged, cemented or otherwise secured.

From the above description it will be apparent that we have produced a chair seat embodying all of the features of advantage set forth as desirable; and while we have described and illustrated the preferred embodiment, it is to be understood that we reserve the right to all changes within the spirit of the invention and without the ambit of the prior art.

We claim:

1. In a seat, a seat plate, a flange secured in underlying spaced relation to the seat plate and in conjunction therewith providing a marginal channel, a flexible cover over said seat plate and having its edge margin received within said channel, and means secured to said seat plate to lock the cover against longitudinal movement in said channel.

2. In a seat, a seat plate, a flange secured in underlying spaced relation to the seat plate and in conjunction therewith providing a marginal channel, a flexible cover over said seat plate and having its edge margin received within said channel, and means intersecting the channel and engaging the cover to prevent outward withdrawing movement of the edge margin of said cover.

3. A seat having a channeled edge margin having an edge of a seat cover positioned therein, the lower wall of said channel extending outwardly to a vertical plane beyond that of the upper wall, a bumper guard, and means for supporting said guard at the outer edge of said lower wall.

4. A seat having a channeled edge margin having an edge of a seat cover positioned therein, the lower wall of said channel extending outwardly to a vertical plane beyond that of the upper wall, a shock absorbing element, and means for supporting said element at the outer edge of said

lower wall, said element being coextensive with the length of said lower wall.

5. A seat having a channeled edge margin, and a flexible seat cover over said seat and having its edge margin received within said channel, the lower wall of said channel extending outwardly to a vertical plane beyond that of the upper wall, adapted to support a bumper guard, and means for supporting said guard at the outer edge of said lower wall.

6. A seat having a channeled edge margin, a flexible seat cover over said seat and having its edge margin received in said channel, the lower wall of said channel extending outwardly to a vertical plane beyond that of the upper wall, a bumper guard, means for supporting said guard at the outer edge of said lower wall, and means intersecting the channel and engaging the cover to prevent outward withdrawing movement of the edge margin of the cover.

7. In a seat, a seat plate having a downwardly projecting centering wall spaced inwardly from the periphery of the seat plate, a seat cover over said plate and having its marginal edge underlying the plate and substantially paralleling said wall, and means secured to said seat plate and interlocking the edge of the seat cover against longitudinal movement in relation to said wall.

8. In a seat, a seat plate, a flanged member secured to the underside of said plate and having a part spaced from said plate and in conjunction therewith providing a marginal channel open at the front, a flexible cover over said seat plate and having its edge margin received in said channel, a shock-absorbing element and means for securing said element to the outer edge of said part, said element being positioned below the edge margin of the cover and extending outwardly to a vertical plane beyond that of the upper wall of the channel.

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