Dec. 8, 1936. I. R. BROMAGEM 2,063,836

CHAIR SEAT

Filed March 9, 1936

Fig. 1.

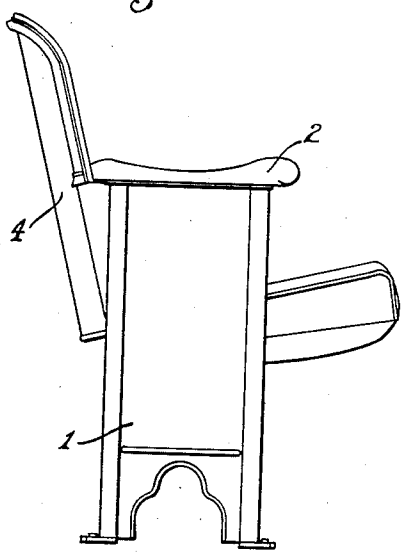


Fig. 2.

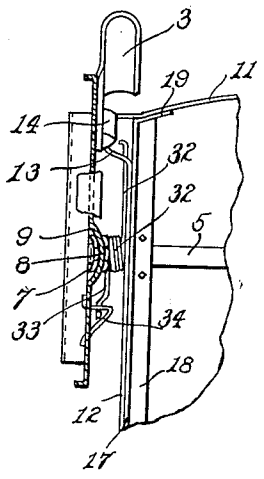


Fig. 3.

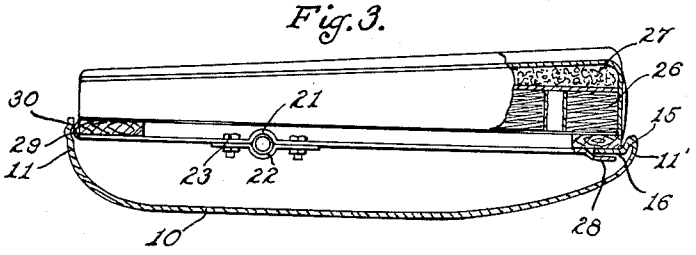


Fig. 4.

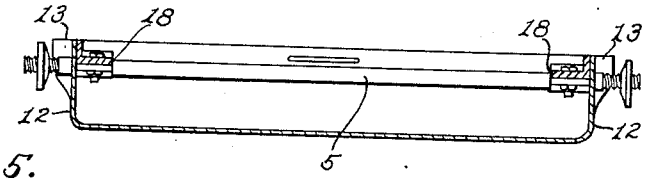
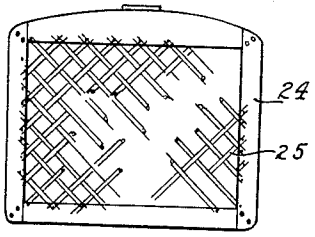


Fig. 5.



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UNITED STATES PATENT OFFICE

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CHAIR SEAT

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Application March 9, 1936, Serial No. 67,759

5 Claims. (Cl. 155—178)

My invention relates to improvements in chairs and more particularly to chairs for amusement places such as theaters, moving picture houses, and the like.

My invention relates more specifically to improvement in a chair seat and it is one of the objects of my invention to provide a chair seat which will present a perfectly smooth surface on the under side, so that when the seat is raised there will be no obstructions or corners to catch in people's clothes. A further object of my invention is to provide a chair seat wherein the upholstery portion thereof or the cushion part thereof may be readily removed and renewed without disassembling any of the parts of the chair and this with a minimum effort and without the use of tools.

For the purpose of disclosing my invention I have illustrated an embodiment thereof in the accompanying drawing, in which

Fig. 1 is a side elevation of a chair of the type embodying my invention;

Fig. 2 is a detail plan showing the manner in which the seat is hinged to the side pedestals;

Fig. 3 is a longitudinal section of my improved seat;

Fig. 4 is a transverse section of the seat with the cushion removed; and

Fig. 5 is a bottom plan of the cushion frame.

In the embodiment of the invention illustrated, the chair comprises side pedestals 1 which are extended upwardly and form, by means of suitable top molding, an arm rest 2. Each of the pedestals is provided with an inwardly extending curved socket 3 adapted to receive the chair back 4. The seat is pivotally secured between the pedestals on a stretcher rod 5 which at its ends is threaded to receive clamping nuts 7 and 8. The pedestal proper is provided with a semi-cylindrical portion 9 through which the stretcher rod is adapted to pass and which is clamped between the bolts 7 and 8. Due to the semi-cylindrical portion of the panel and the curvature of the clamping bolts, the bow of a row of chairs may be adjusted to suit different requirements of different theaters.

Each of the seats comprises a bottom pan 10 which is drawn from a single sheet of metal and is more or less of a pan shape; the deepest portion of the pan being at the rear. This pan is formed from a single sheet of relatively heavy gauge metal having its back 11 and front 11' turned up as well as being provided with the upturned side walls 12, and in the formation of the pan the side, back and front walls are drawn so that a seamless structure is provided. At the rear end, the side walls 12 are drawn out to form laterally extended sheet metal lugs 13 adapted to engage beneath inwardly projecting stops 14 on the pedestals to maintain the seat in its substantially horizontal position. The front wall 11' of the bowl-shaped pan 10 is turned back upon itself as at 15 and is then turned inwardly as at 16 to provide an inturned flange across the front edge. In addition to this inturned flange I preferably secure on the inner faces of the side walls 12 angle members, the vertical legs 17 of which are welded to the side walls 12 and the horizontal legs 18 of which provide inturned flanges on the side walls; these flanges being in the same plane as the flange 16. As an additional security the legs 17 of the angles are provided with extensions 19 lying against the rear wall 11 and preferably welded to the wall.

The stretcher rod 5 extends through the two side walls 12 and beneath the legs 18 of the angles. To accomodate this stretcher rod and to position the same, the legs 18 at the point beneath which the stretcher rod passes are bent up slightly as at 21 to form sockets or recesses for the accommodation of the stretcher rod. To hold the stretcher rod in position, straps 22 engage the legs 18 beneath the rod and these straps are held to the legs by rivets or bolts as at 23.

The cushion proper is mounted upon a frame 24 which is shaped to fit within the contour of the pan 10 and rest on the flanges 16 and 18. This frame carries the usual cross wires 25 for supporting the springs 26 of the cushion and the covering 27. The cushion may take any desired form and that shown is for the purpose of illustration only. At the forward end of the frame, on the under side, I provide a pair of spaced apart forwardly extending clips 28 adapted, when the cushion is placed in position, to engage beneath the flange 16 to prevent the cushion from being raised at its forward end. At its rear end the frame is provided with a metal clip bowed outwardly as at 29 which is adapted to take into a recess 30 formed in the rear wall of the pan. Preferably, this projection 29 is not necessarily resilient as the resiliency of the rear wall is depended upon for providing a snap fastening. This is particularly desirable as in manufacture the frame 24 may not be so constructed as to provide an extremely accurate fit and when assembling, in order to make a snap fastening it is merely necessary to strike the rear wall at the point at which the recess 30 is formed to bend the same inwardly sufficient to engage the pro-

jection 29. This arrangement permits the cushion and its associated frame to be raised out of the pan without the use of any tools for the insertion of a repaired or new cushion in the place thereof; and this without disassembling any parts of the seat. By providing the clips 28 which engage under the flange 16 at the forward end, there is no danger of the seat being pulled up by the occupant thereof in manipulating the seat to raise the same for passage, etc.

In order that the seat may automatically raise to vertical position when the occupant rises therefrom, a coiled spring 31 surrounds the stretcher rod 5, between the seat and a side pedestal 1. One end 32 of this spring is extended to project through a wall of one of the lugs 13 and the other end 33 is extended upwardly to engage in a loop 34 secured on the side pedestal. The spring is placed under sufficient tension to normally rock the seat on the stretcher rod 5 to a vertical position with the front of the seat on top.

I claim as my invention:

1. A chair seat comprising a pan formed from a single sheet of material having integral upturned sides and back and having the sides at the rear drawn outwardly to form abutment members and having inwardly extending horizontal flanges on the inner faces of at least the sides and front, pivot members extending from the sides, and a cushion fitting within the side and ends of said pan and resting upon the inwardly extending flanges.

2. A chair seat comprising a bottom seamless metal pan having upturned sides and ends, inwardly extending flanges extending from the inner faces of at least the ends and sides and positioned below the top edges thereof, abutment members extending from the sides at the rear of the pan, pivot members extending from the sides intermediate of the front and back of the pan, and a cushion fitting within the walls of the pan and resting upon the inwardly extending flanges thereof.

3. A chair seat comprising a seamless drawn pan having side and end walls and having the side walls drawn outwardly at the rear to form abutments, inwardly extending flanges on at least the sides and front walls located below the surface of the top edges thereof, a pivot strut rod extending through the side walls of the pan and projecting beyond said walls on either side thereof, and a seat cushion fitting within the walls of said pan and resting on said flanges.

4. A chair seat comprising a seamless drawn bottom pan having side and end walls, pivot members extending beyond each of the side walls, inwardly extending flanges extending from at least the side and end walls and a seat cushion having at one end ears adapted to engage beneath the flange of one of the walls and having at the opposite end a projection adapted to snap into a recess formed in one of the walls of the pan.

5. A chair seat comprising a seamless drawn bottom pan having side and end walls, inwardly extending flanges projecting from said walls below the top edge thereof, the side walls of the pan being drawn outwardly to form laterally extending stops at the rear of the seat, a stretcher rod extending through said side walls and projecting beyond each side thereof beneath the inwardly extending flanges, and a cushion seat fitting within the walls of said pan and resting upon the inwardly extending flanges.

IRL R. BROMAGEM.