

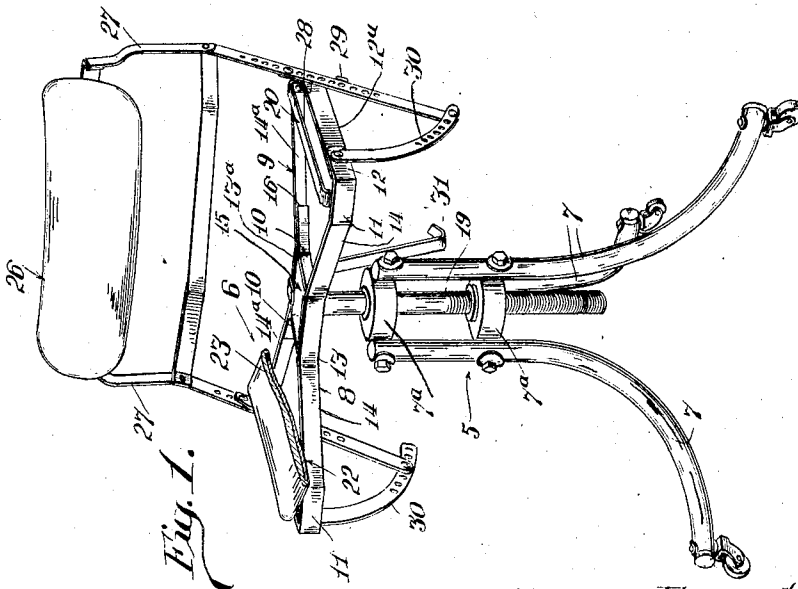
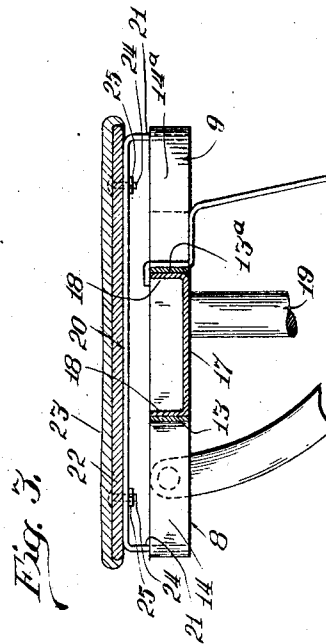
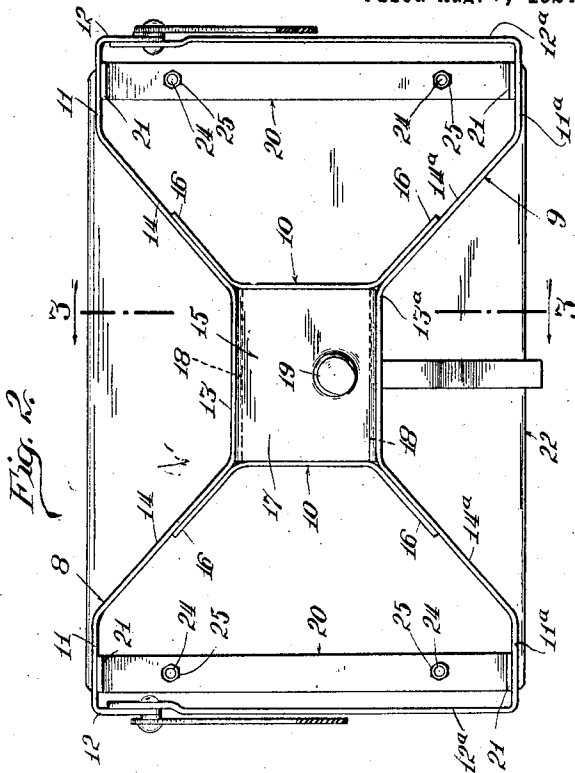
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SEAT FRAME FOR CHAIRS OR STOOLS AND THE LIKE

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SEAT FRAME FOR CHAIRS OR STOOLS AND THE LIKE.

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This invention relates to improvements in seat frames for chairs or stools and the like and it consists of the matters hereinafter described and more particularly pointed out in the appended claims.

One of the objects of the present invention is to provide a strong and rigid, yet a simple and efficient, seat frame for chairs or stools and the like which may be readily made and assembled from band iron and this without the aid of rivets or bolts or the like.

Another object of the invention is to provide such a seat frame which is especially adapted for use in swivelling chairs or stools and which is so constructed as to include a center plate to which the usual screw threaded post or stem is rigidly secured.

These objects of the invention, as well as the many advantages thereof will more fully appear as I proceed with my specification.

In the drawings:—

Fig. 1 is a perspective view of a swivelling chair which includes a seat frame embodying my invention.

Fig. 2 is a bottom plan view of said seat frame.

Fig. 3 is a transverse vertical sectional view as taken on the line 3—3 of Fig. 2.

Referring now in detail to that embodiment of the invention illustrated in the accompanying drawings, 5 indicates as a whole the upright standard or supporting frame of a swivelling chair and 6 indicates, as a whole, the seat frame and seat therefor. Said standard or supporting frame includes a plurality of legs 7 which are secured at their top ends to vertically spaced bearing sleeves 7^a—7^a in which the threaded post of the seat frame 6 is operatively engaged, as will more fully be described later.

The seat frame 6 is in the form of an open frame which includes front and rear seat frame members 8 and 9, respectively, which are made of edgewise arranged strap irons, and two brace members 10—10 respectively, also made of edgewise arranged strap iron.

The front member 8 of the seat frame which defines the width thereof is shaped to provide two relatively short end sections 11—11, each with a rearwardly and right angularly bent short end extension 12—12 and an intermediate or middle section 13 which is parallel with but is arranged in a plane offset or spaced inwardly from the plane of the end section 11—11 and to which

it is connected by angularly disposed legs or branches 14—14, respectively.

The rear member 9 of the seat frame is of the same substantial shape as the front member 8 and includes two relatively short end sections 11^a—11^a, each with a long end extension 12^a—12^a and an intermediate or middle section 13^a, which is parallel with but is arranged in a plane offset or spaced inwardly from the plane of the end sections 11^a—11^a, to which it is connected by angularly disposed legs or branches 14^a—14^a, respectively. The long end members 12^a—12^a extend substantially the depth of the seat frame from front to rear and the extremities of said end members 12^a—12^a are offset and are secured to said end members 12—12 of the front frame member 8, preferably by welding or brazing.

The brace members 10—10 which are also made of edgewise arranged strap iron, each includes a central portion 15 which extends between and connects the ends of the intermediate or middle portion of the front and rear frame members 8 and 9, and angularly disposed end portions or arms 16—16 which engage with and are secured to the angularly disposed legs or branches 14 and 14^a, respectively of said front and rear seat frame members, by welding or brazing.

The parts 13—13^a and 15—15 provide a secondary and smaller open frame at the approximate center of the seat frame and in the said secondary and smaller frame is located a plate 17 which substantially fills the same. Said plate is arranged flush with the bottom edges of said secondary and smaller open frame and includes upright front and rear flanges 18—18 which are welded or otherwise suitably secured to the said intermediate or middle frame members 13 and 13^a, respectively. To said plate, intermediate its ends and preferably near the member 13^a, is secured a depending post or cylindrical rod 19 which is adapted to extend through and have suitable bearing in the collars 7^a—7^a of the supporting frame 5. I find it most convenient to weld the top end of said post to said plate 17 but I do not wish to be limited thereto as it may also be attached to said plate in any other suitable manner.

To further brace the open seat frame, as a whole, I provide flatwise arranged bars 20—20 near said end members 12 and 12^a,

which bars each include depending end flanges 21—21 secured to the end sections 11 and 11^a of the front and rear frame bars 8 and 9, respectively. The top surface of said bars is arranged in a plane a short distance above the top edges of said open seat frame and to said bars is attached a seat member 22 in the form of a suitably formed piece of wood veneer which is of an area substantially equal to that of said open seat frame 6, as a whole. Preferably, but not necessarily so, said seat member is provided with a top cushion 23 which covers said seat member. Said seat member is secured to the bars 20 by means of bolts 24 and nuts 25.

In the embodiment of the invention herein shown, said chair is of the kind having a folding back member 26 which includes side arms 27—27, said arms each carrying a hook 28 between its ends, which operatively engage the end sections 11^a of the rear members 9 of the seat frame, the top ends of said arms being connected by a back rest 29 and the bottom ends of said arms being pivotally and adjustable connected to the one end of link 30, the other ends of which are, in turn, pivotally connected to the overlapping parts 12 and 12^a of the seat frame. Said back rest parts just described are so arranged that the seat back may be folded downwardly into a position beneath the seat frame and to be supported in this folded down position by a hook 31 which is secured to and depends from the intermediate or middle portion 13^a of the rear member 9 of the seat frame.

It is apparent from the foregoing description that a substantially open metallic seat frame is provided which is strong and rigid and which, therefore, readily withstands the strains to which it is normally subjected, without buckling or distortion.

It is also apparent that the parts 13—13^a and 15—15 provide a frame within a frame which frames not only mutually brace each other but the inner or smaller frame provides an advantageous means to which the post 19 is attached.

The seat frame is light in weight and may be easily assembled by persons who need not possess more than ordinary skill in this kind of work. Said frame especially adapts itself to the use of relatively short length of strap iron so that there is substantially no waste in the stock used therefor.

While in describing my invention, I have referred to certain details of construction and in the arrangement and in the form or shape of the parts thereof, I do not wish to be limited thereto, except as may be pointed out in the appended claims.

I claim:

1. A seat frame for chairs or stools and the like comprising front and rear frame members, said members including end parts

which are bent at an angle thereto and are secured together to provide the side members of the frame, the middle parts of said front and rear frame members being offset inwardly toward but being spaced from each other, brace members parallel with the side members of the frame for connecting said inwardly offset parts together to provide a smaller and secondary frame, and a plate member secured in said secondary frame.

2. A seat frame for chairs or stools and the like comprising front and rear frame members, said members including end parts which are bent at an angle thereto and are secured together to provide the side members of the frame, the middle parts of said front and rear frame members being offset inwardly toward but being spaced from each other, brace members parallel with the side members of the frame for connecting said inwardly offset parts together to provide a smaller and secondary frame, a plate secured in said secondary frame and a post carried by said plate.

3. A seat frame for chairs or stools and the like comprising front and rear frame members, said members including end parts which are bent at an angle thereto and are secured together to provide the side members of the frame, the middle parts of said front and rear frame members being offset inwardly toward each other, members parallel with said side members for connecting said inwardly offset parts together, bars adjacent to and parallel with said side members of the frame for connecting said front and rear frame members together, and a seat member secured to said bars.

4. A seat frame for chairs or stools or the like comprising front and rear edgewise arranged frame members, each having short longitudinal end parts and inwardly offset middle parts which are connected to said end parts by angularly disposed parts, said end parts each having right angular end extensions which are connected together to provide the side members of the frame, brace members parallel with the side members and connecting said inwardly offset parts together, said brace members each including angularly disposed end parts connected to said angularly disposed parts of said front and rear frame members to provide a secondary open rectangular frame, and a plate in said secondary frame which plate includes parallel side flanges which engage and are secured to said inwardly offset part of said front and rear members.

5. A seat frame for chairs or stools or the like comprising front and rear edgewise arranged frame members, each having short longitudinal end parts and inwardly offset middle parts which are connected to said end parts by angularly disposed parts, said end parts each having right angular end extensions

sions which are connected together to provide the side members of the frame, brace members parallel with the side members and connecting said inwardly offset parts together, said brace members each including angularly disposed end parts connected to said angularly disposed parts of said front and rear frame members to provide a secondary open rectangular frame, a plate secured in said secondary frame, and brace bars adjacent the side members for connecting the short longitudinal end parts of said front and rear frame members together.

In testimony whereof I have hereunto set my hand this 18th day of July, 1924.

FREDERICK HAGGER HEADLEY.