June 15, 1937. E. P. KLAR 2,083,716

CHAIR

Filed May 23, 1936

Fig. 1.

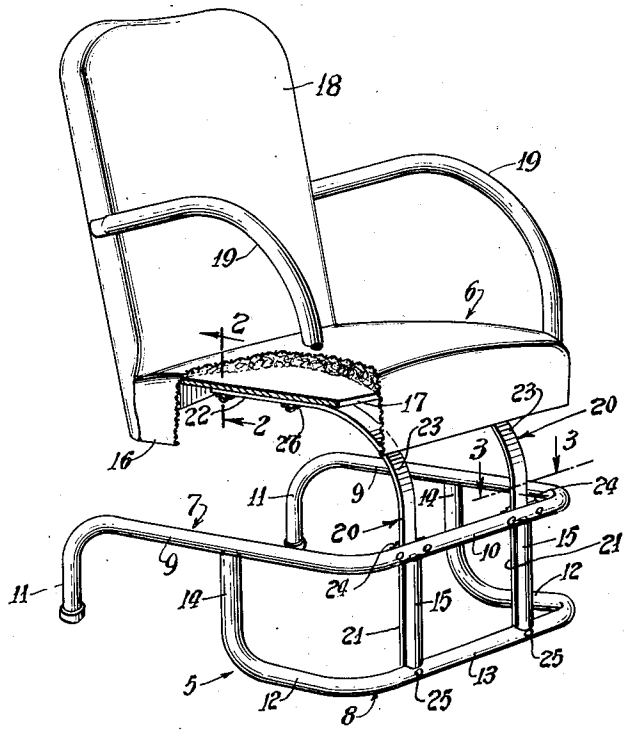


Fig. 2.

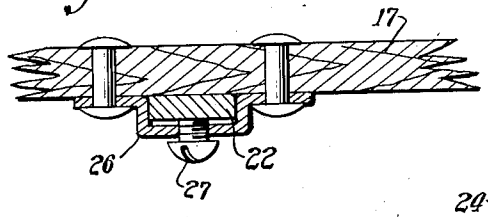
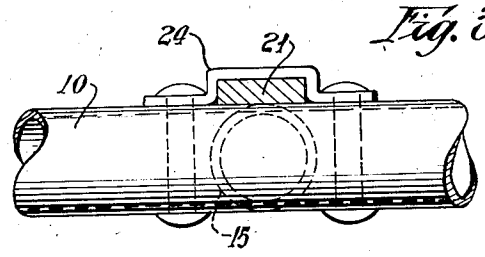


Fig. 3.



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CHAIR

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5 Claims. (Cl. 155—50)

This invention relates to improvements in chairs and it consists of the matters hereinafter described and more particularly pointed out in the appended claims.

The present invention is more particularly concerned with that type of chair including a rigid base and a seat yieldably mounted thereon for a rocking-like action.

One of the objects of the present invention is to provide in a chair of the kind described, a novel mounting for the seat with respect to the base and which permits a gentle rocking action of the seat for the ease and comfort of the occupant.

Another object of the invention is to provide a chair of this kind that includes a base of tubing which though light in weight, is strong and rigid and at the same time, is attractive, modern and pleasing in appearance.

A further object of the invention is to provide a chair of this kind including a rigid base with a front portion and spring-like arms secured thereto and supporting the seat whereby the same is capable of a gentle rocking action.

Still a further object of the invention is to provide a chair of this kind having a relatively open, light-weight base made of top and bottom horizontal frames of tubing so connected together as to provide stability and at the same time permit the chair to be easily moved from one place of use to another and also permit cleaning under the chair without moving the same from its location, when it is desired to do so.

The above mentioned objects of the invention, as well as others, together with the advantages thereof, will more fully appear as I proceed with my specification.

In the drawing:

Fig. 1 is a perspective view of a chair embodying the preferred form of the invention with parts shown as broken away better to illustrate the construction thereof.

Fig. 2 is a transverse vertical detail sectional view through a part of the seat bottom of the chair as taken on the line 2—2 of Fig. 1.

Fig. 3 is a horizontal detail vertical sectional view through a part of the chair on an enlarged scale as taken on the line 3—3 of Fig. 1.

Referring now in detail to that embodiment of the invention illustrated in the drawing, 5 indicates as a whole the base of the chair and 6 indicates the seat thereof.

In this instance, the base which is of an open character includes a top horizontal frame 7 and a bottom horizontal frame 8 both preferably made of tubing. The top frame includes side members 9—9, connected together at the front by a cross bar or member 10. Each side member has a turned down rear end portion providing a foot 11. The bottom frame which is shorter from front to rear than the top frame, includes side members 12—12 connected together at the front by a cross bar or member 13. Each side member 12 has an upturned rear end portion 14 which is secured to a mid portion of an associated side member 9 of the top frame. As shown herein, the bottom frame is arranged in the vertical plane of the front end portion of the top frame. Between the cross bars 10 and 13 of said frames are upright posts 15—15, the ends of which are secured to the respective front cross bars. These posts preferably are welded to the cross bars and the members 14 of the bottom frame preferably are welded to the side members 9 of the top frame.

The corners connecting the side members and front cross bars together are each made on a generous curve and the corners connecting the parts 11 and 14 to their respective side members are also each made on a generous curve. The curves for all of said corners are preferably of about the same radius so as to present a uniformity of appearance to the base as whole.

The seat 6 of the chair which is of a depth from front to rear less than than that of the base as a whole, includes a suitable substantially rectangular frame 16 and a seat bottom 17. The seat bottom which may be made from a piece of sheet material such as veneer, carries upholstery. The frame is relatively deep and is suitably covered to give the desired depth to the seat proper. Associated with said seat, is a suitably upholstered back 18. Between the sides of the seat and the side margins of the back are curved arm rest members 19 which are secured at their ends to the seat and back respectively.

To yieldingly mount or support the seat with respect to the base, a pair of inverted substantially L-shaped flexible or pliable members 20—20 are provided. Preferably these members which are spaced laterally to accord with the spacing between the posts 15, are made of flat spring bars. Each member 20 includes a vertical leg 21 and a horizontal leg 22 connected together by a rounded corner 23 of a generous curvature.

On the rear side of the cross bar 10 of the top frame 7, in the plane of the posts 15 are secured bracket clips or clevises 24. The vertical leg of each member passes down through its associated clip or clevis so as to be located

behind its associated post and the bottom end of said vertical leg is secured to the cross bar 13 of the bottom frame in any suitable manner. As herein shown a rivet 25 is employed for that purpose.

Upon the underside of the seat bottom 17 which is preferably of a width less than that of the base 5 as a whole, are secured bracket clips or clevises 26 similar to those before referred to. The rear ends of the horizontal legs 22 of the members 20 are operatively secured therein as by means of screws 27 as shown in Fig. 2. If desired these clips may be welded to the horizontal legs 22 of the members 20 secured by rivets or screws to the veneer seat bottom. By the use of these clips or clevises, the necessity of making holes in those parts of the members, upon which a flexing strain is imposed in the use of the chair, is avoided. Thus, as there is no area or place in said members where cracking under flexing strains can start, the said members have an indefinite period of usefulness.

It is to be noted that with the structure described the seat is supported at or from the front of the base by means of the flexible members 20. Thus when the chair is occupied, the seat will flex about the rounded corners 23 and those parts of the vertical legs 21 of the members 20 above the clips or clevises 24.

The occupant may readily set up a gentle rocking action of the seat which is conducive to the ease and comfort of the occupant. It is also to be noted that the feet 11 of the base engage the floor at a point to the rear of the seat 6 so that even though the rocking action set up by the occupant should become vigorous, the chair, as a whole, cannot tip over backward. The seat is of a width less than that of the base, and therefore, the rear end of the seat can swing down between the rear end of the frame in such vigorous rocking action.

The chair is not only comfortable, but is light in weight as well as strong and rugged and presents an appearance pleasing to the eye.

While in describing my invention, I have referred in detail to the form, arrangement and construction of the parts of the chair, the same is to be considered only in the illustrative sense so that I do not wish to be limited thereto except as may be specifically set forth in the appended claims.

I claim as my invention:

1. A chair embodying therein a base including side portions and top and bottom cross members connecting said side portions together at the front, laterally spaced upright posts extending between and secured to said top and bottom cross members, a plurality of spaced flexible members each including a substantially upright portion and a top end substantially horizontal portion connected thereto by a curved corner portion, means for connecting the upright portions to said cross members in the planes of said posts, and a seat operatively secured to said horizontal portions of said flexible members.

2. A chair embodying therein a base including side portions and top and bottom cross members connecting said side portions together at the front, laterally spaced upright posts extending between and secured to said top and bottom cross members, clevises secured to one side of the top cross member in substantially the plane of said posts, seat supports each including a substantially upright portion and a top end substantially horizontal portion connected thereto by a rounded corner portion, said upright portions extending through said clevises and being secured at their bottom extremities with respect to said bottom cross member, and a seat operatively secured to the horizontal portion of said seat supports.

3. In a chair, a base comprising vertically spaced top and bottom horizontal frames arranged in substantially the same vertical plane and each including side members and a cross bar connecting the front ends thereof together, the side members of one frame being longer than those of the other frame, the rear ends of the longer side members being bent toward the plane of the shorter side members of the other frame and the rear ends of the shorter members of said other frame being bent toward and secured to said longer side members of the first mentioned frame at points between their ends, and upright posts extending between and secured to portions of both frames forwardly of their bent ends.

4. In a chair, a base comprising vertically spaced top and bottom horizontal frames arranged in substantially the same vertical plane and each including side members and a cross bar connecting the front ends thereof together, the side members of the top frame being longer than those of the bottom frame and having downturned rear ends terminating in substantially the plane of the side members of the bottom frame, the side members of the last mentioned frame including upturned ends that engage and are secured to the side members of the top frame at a point between the ends thereof, and at least one upright post arranged between and secured at its ends to said cross bars of both frames.

5. A chair embodying therein a base, including top and bottom side portions and top and bottom cross members connecting said side portions together at the front, laterally spaced upright posts extending between and secured to said top and bottom cross members, a plurality of laterally spaced flexible members each including a substantially upright portion and a top end substantially horizontal portion connected thereto by a curved corner portion, means for connecting the upright portions to said cross members, and a seat operatively secured to said horizontal portions of said flexible members.

ELOF P. KLAR.