

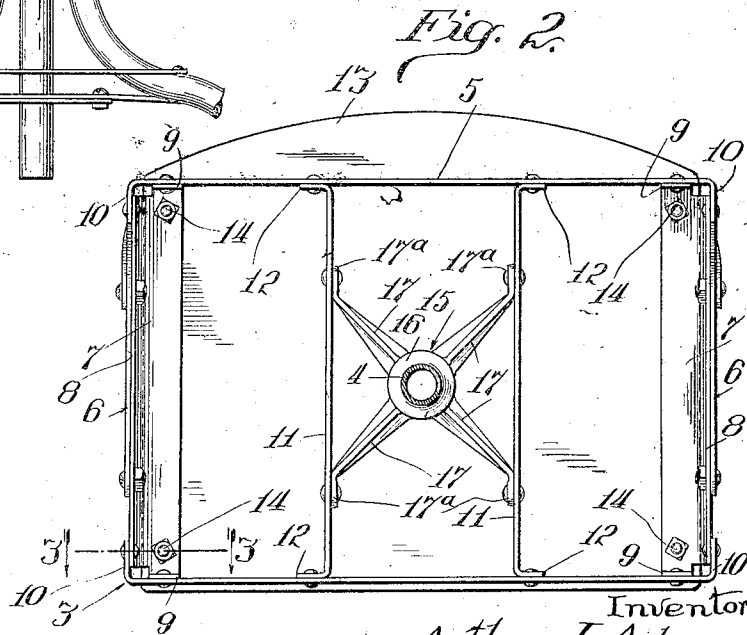
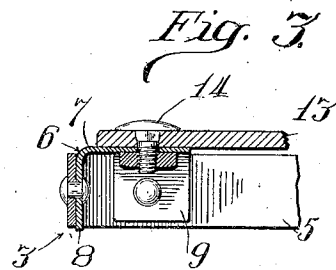
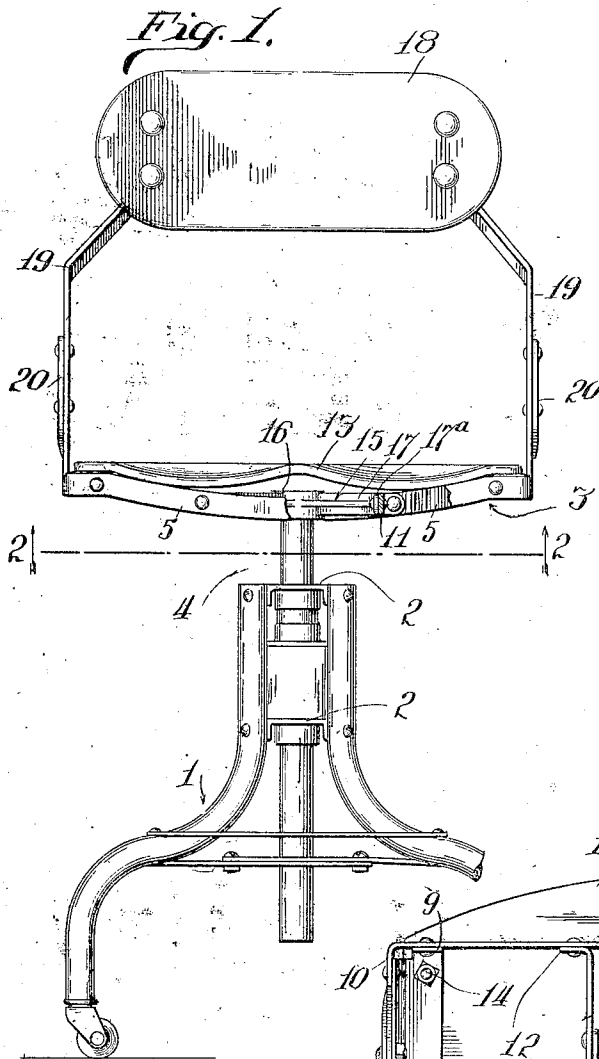
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A. J. ADAMS

SWIVELING CHAIR

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UNITED STATES PATENT OFFICE.

ARTHUR J. ADAMS, OF BAY CITY, MICHIGAN, ASSIGNOR TO WILLIAM S. FERRIS, OF ELKHART, INDIANA, NOW TRADING AS DOMORE CHAIR COMPANY.

SWIVELING CHAIR.

Application filed July 27, 1925. Serial No. 46,226.

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

5 The primary object of the invention is to provide a simple and improved seat frame for a metallic swiveling chair and an improved manner of securing the center post to the seat frame.

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

In the drawings:

15 Fig. 1 is a view in front elevation of a metallic chair of the swiveling type embodying my invention.

20 Fig. 2 is a horizontal sectional view as taken on the line 2—2 of Fig. 1 and shows the seat frame as looked at from below.

Fig. 3 is a detail vertical sectional view on an enlarged scale as taken on the line 3—3 of Fig. 2.

25 Referring now in detail to that embodiment of the invention illustrated in the accompanying drawings 1 indicates the supporting legs which are grouped together at their top ends and are there secured to vertically spaced spiders 2 to form the standard 30 for the chair. 3 indicates the seat frame as a whole to which a center post 4 is secured, which center post is journaled in the sleeves 2 in a manner permitting a vertical adjustment therein as well as a rotating bearing 35 as is well known in swiveling chairs.

The seat frame which is rectangular in plan, is wider than it is deep and includes front and rear members 5—5 and side members 6—6. Said side members are in the 40 form of angle bars having inwardly facing horizontal top flanges 7—7 and vertically disposed outer side flanges 8—8. The ends of said horizontal flanges are extended beyond the vertical flanges and are bent downwardly to provide end ears 9—9. The front and rear members 5—5 are in the form of 45 vertically edgewise arranged bars which are bowed downwardly between their ends as best shown in Fig. 1. The ends of said bars are bent at a right angle as at 10—10 and engage the ends of the vertical flanges of the side angle bars and are secured thereto as for instance by rivets. The said front and rear bars are connected at points be-

tween their ends by intermediate, vertically 55 edgewise arranged bars 11—11 each of which includes bent over right angularly disposed ears 12—12 which are secured to said front and rear bars respectively as for instance by rivets as shown. 60

A seat member 13, formed to the bow of the front and rear members of the seat frame, rests at its ends upon the horizontal flanges 7—7 of the angle bar side members 6; and is secured thereto as by means of 65 the bolts 14. The said seat may or may not be padded as is desired.

Between the intermediate bars 11—11 of the seat frame, is located a post receiving spider 15 as best shown in Fig. 2. Said 70 spider includes a hub 16 which is arranged centrally of the seat frame and in said hub the top end of the seat post 4 is firmly anchored. Extending radially from said spider hub is a plurality of arms 17 which 75 are arranged at an angle of substantially 90° to the intermediate brace bars and each arm terminates in an ear 17^a arranged parallel with said intermediate brace bars 11—11 and engaging the inner surfaces thereof 80 as best shown in Fig. 2. Said ears are secured to said brace bars in any suitable manner and as shown herein they are riveted to said bars. A back rest member 18 is supported by side arms 19 and braces 20 from 85 the side members 6—6 of the frame in any suitable manner.

By the arrangement above described the post may be anchored in the spider hub after which the spider arms are positioned with 90 respect to the brace bars, which of course have been assembled in the seat frame. Such a construction is advantageous not only because ease of assembly but also because it is light, in weight yet strong and rigid. 95 Again the spider not only acts to connect the post to the seat frame but also acts to rigidly brace the seat frame as a whole, so that weight is eliminated without sacrificing strength and rigidity. 100

My improved seat frame may be readily made from stock purchased in open market and does not call for the necessity of expensive machine operations. It provides a unitary structure which may be readily 105 made at a relatively low cost.

While in describing my invention, I have referred to certain details of mechanical

construction and arrangement of parts, I do not wish to be limited thereto except as may be pointed out in the appended claims.

I claim as my invention:—

1. A chair embodying therein a seat frame comprising angle bar side members having a top horizontal flange and vertical side flanges, vertically edgewise arranged front and rear members, having their ends bent over to engage upon the vertical flanges of said side members, brace members between and parallel with said side members and secured at the ends to said front and rear members, and a seat member resting at its ends upon and secured to the horizontal flanges of said angle bar side members.

2. A chair embodying therein a seat frame comprising angle bar side members having a top horizontal flange and vertical side flanges, vertically edgewise arranged front and rear members, having their ends bent over to engage upon the vertical flanges of said side members, the ends of said horizontal flanges of the angle bar side members being bent over to provide ears engaged with and secured to said front and rear frame members, brace members connecting said front and rear members at points between said side members, and a seat member resting at its ends upon and secured to the horizontal flanges of said angle bar side members.

3. A chair embodying therein, a seat frame comprising side members, and vertically edgewise arranged front and rear members,

intermediate brace bars parallel with said side members and secured to said front and rear members, a spider arranged between said brace members and including a hub, a plurality of arms extending away from said hub and secured at their outer ends to said brace members, and a post fixed at its top end in said spider hub.

4. A chair embodying therein, a seat frame comprising side members, and vertically edgewise arranged front and rear members, vertically edgewise arranged brace bars parallel with said side members and having bent ends which are secured to said front and rear frame members, a spider arranged between said brace members and including a hub, a plurality of angularly disposed arms having ends parallel with and secured to said brace members, and a post secured at its top end in said hub of the spider.

5. A chair frame comprising side angle bar members each having a horizontal flange and a vertical flange, and vertically edgewise arranged front and rear frame members, said front and rear frame members having ends which are bent over to engage and are secured to the end portions of the vertical flange of said side members, and the ends of the horizontal flanges being bent vertically to engage with said front and rear frame members near their bent over ends.

In testimony whereof, I have hereunto set my hand, this 6th day of July, 1925.

ARTHUR J. ADAMS.