

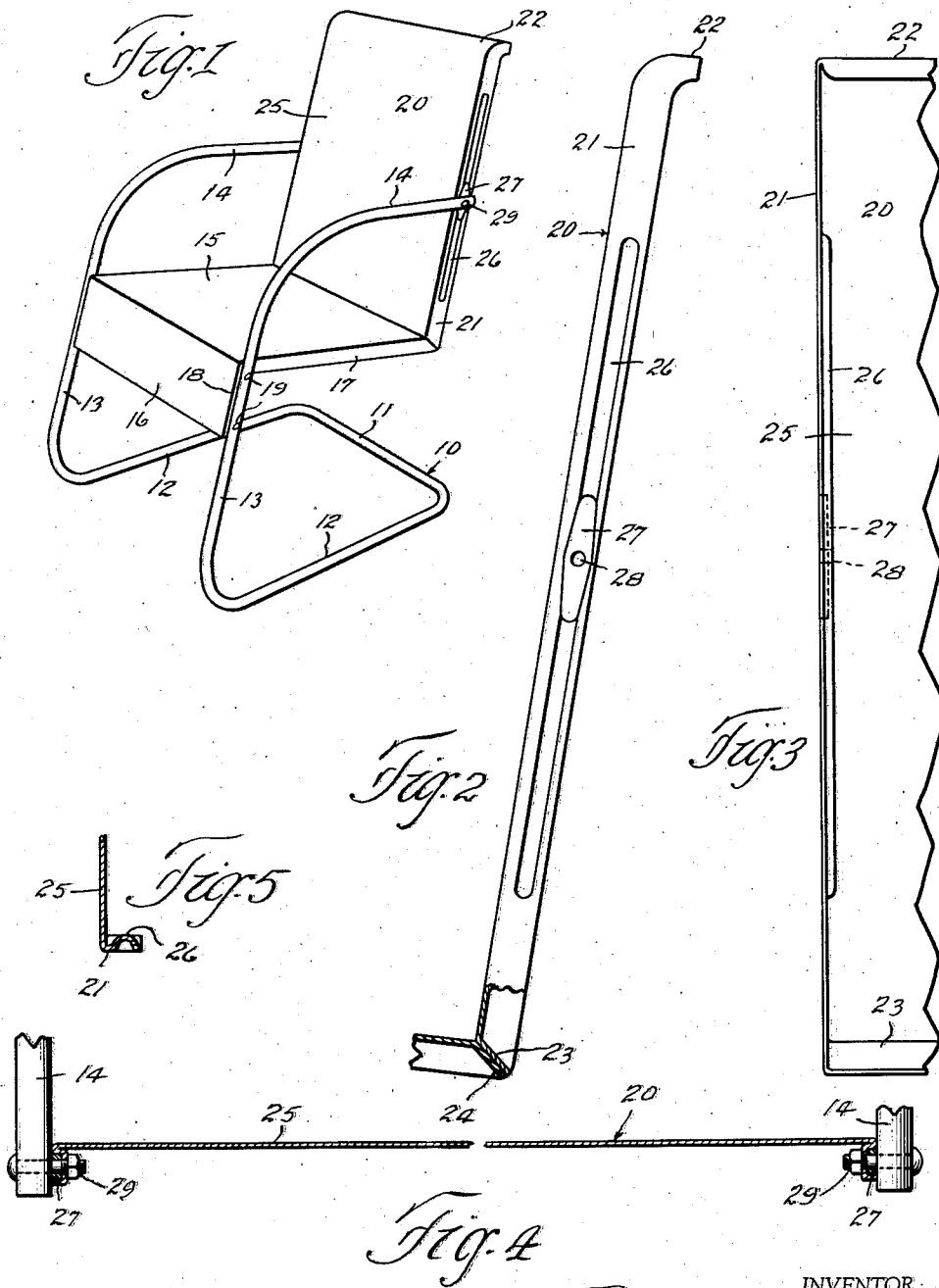
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CHAIR CONSTRUCTION

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CHAIR CONSTRUCTION

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2 Claims. (Cl. 155—178)

This invention relates to chairs and has for its principal object to provide a cheap, although sturdy, chair back construction. More specifically, the invention relates to a novel reinforcing mechanism for a sheet metal chair back whereby the same may be made of relatively light gauge metal and at the same time, have sufficient strength to avoid deformation at the points of attachment where such points are intermediate the top and bottom of the chair back.

Other and more limited objects will be in part apparent and in part pointed out hereinafter in connection with the accompanying drawing wherein Fig. 1 is a perspective view of a chair embodying the invention; Fig. 2 is an enlarged side elevation of the chair back; Fig. 3 is a fragmentary rear elevation of the back; Fig. 4 is a horizontal section taken through the point of attachment of the chair back to the supporting arms and Fig. 5 is a fragmentary transverse section through one flange of the chair back and showing the construction of the reinforcing rim at a point spaced from the point of connection to the arm.

In the drawing, the numeral 10 indicates generally a chair frame made of semi-rigid tubing in the form of a loop having a transverse portion 11 and side portions 12 adapted to extend along the floor and uprights 13 at each side at the front extending upwardly and terminating in rearwardly directed arm portions 14. Attached to the portions 13 at a suitable height is a chair seat 15 having a downwardly extending portion 16. The seat 15 and the portion 16 may be of stamped sheet metal construction having flanges 17 and 18 respectively, the flanges 18 being secured to the portions 13 as by bolts or rivets 19. Secured to the rear of the seat portion 15 is a sheet metal back 20 which preferably is of one piece construction and provided with side flanges 21, a rearwardly directed bent-over top portion or flange 22 and a bottom flange 23 adapted to be secured by rivets, welding or otherwise, to the flange 24 at the rear of the seat 15. The back 20 is composed of a central web 25 and the above mentioned flanges. The side flanges 21 are provided with inwardly embossed ribs 26 defining grooves on the outer surfaces also indicated by the numeral 26. The ribs 26

extend longitudinally of the flanges 21 through a major portion of the length thereof and are widened centrally as best seen in Figs. 2 and 4 to receive a bearing element 27. The bearing elements 27 are preferably welded to the bottom and adjacent side walls of the groove 26 formed within the ribs and an opening 28 extends through each bearing element 27 and the bottom of each rib. Suitable bolts or rivets 29 extend through the rear ends of the arms 14, the bearing elements 27 and the ribs of the flanges 21 and thereby form a support for the back and the rear portion of the seat. The bearing elements 27 are elongated, as shown, for the purpose of distributing the pressure exerted upon the ribs by the bolts 29 over a sufficient area to prevent distortion of the ribs or of the side flanges.

From the foregoing, it will be evident that I have provided a reinforcing construction for chairs which is well adapted for its intended purpose and while I have shown and described the present preferred embodiment, I wish it understood that I am not limited to details of the disclosure except as defined in the appended claims.

Having thus described my invention, what I claim is:

1. In a chair, a back having metal side flanges, each of said flanges being provided with an inwardly embossed longitudinally extending rib providing a groove, bearing elements seated in the said grooves, arms extending across the said flanges, and a bolt extending through the rear end of each arm and through the bearing element and the rib within which said element is seated.

2. In a chair, a back having metal side flanges, each of said flanges having an inwardly embossed longitudinally extending rib forming a groove having a widened portion intermediate the ends thereof, an elongated bearing element seated in and conforming to the widened portion of each groove, arms having their rear ends extending across the grooves formed in said flanges and across the bearing elements therein, and securing means extending through the rear end of each arm, through the bearing element adjacent thereto and through the rib forming the groove wherein the bearing element is seated.

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