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M. A. HEIMANN

2,085,804

CHAIR

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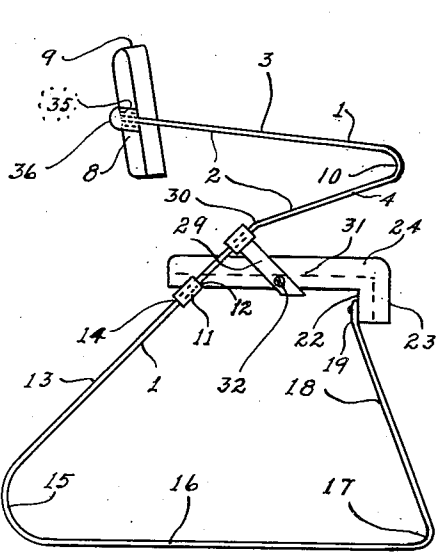


Fig. 1.

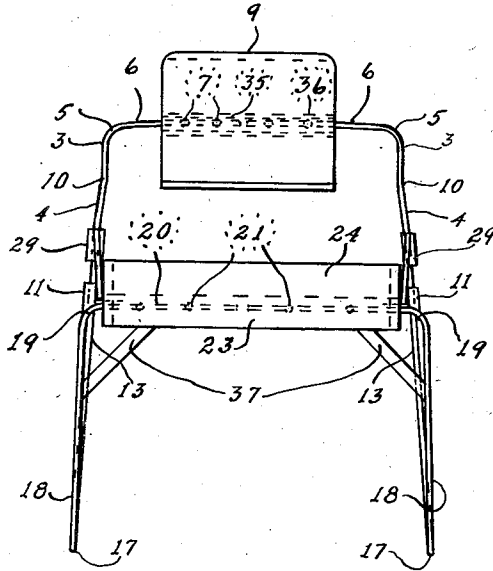


Fig. 2.

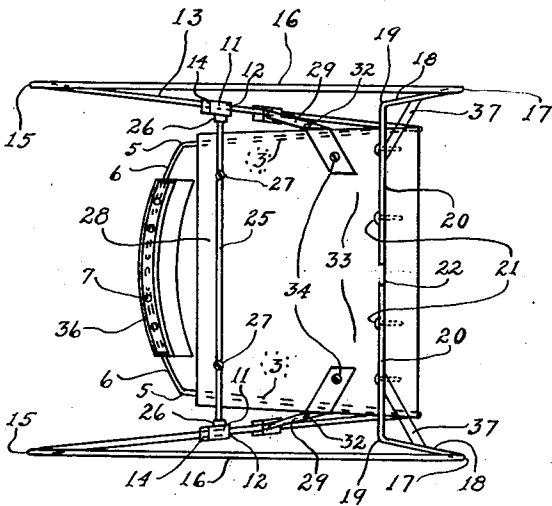


Fig. 3.

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CHAIR

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3 Claims. (Cl. 155—50)

This invention relates to improvements in chairs, and more particularly to improvements in the construction of chairs with metal frames.

In the present manufacture of metal chairs, hollow tubing is extensively used, and in bending tubing great care must be taken to prevent breakage. In this invention, solid metal is used, making for speed and economy of manufacture.

In the present manufacture of metal chairs, the back of the chair is rigid in relation to the other parts. In this invention, the top part of the chair frame has a certain amount of flexibility when a user leans backward, thus making the chair more comfortable.

Other features of improvement will appear in the following specification.

In the accompanying drawing, forming a part of this specification and in which like numbers of reference denote like parts wherever they occur,

Figure 1 is a side elevation.

Figure 2 is a front elevation.

Figure 3 is a bottom view.

As shown, the chair comprises two side frames 1 fabricated from solid spring bar metal, and each is composed of detachably connected parts, thereby allowing the chair to be readily "knocked down" for shipping, and quickly reassembled. The upper part 2, comprising the arm rests 3 and supports 4, have bends 5, terminating in substantially horizontal rods 6, which rods are rigidly secured by screws 7 to the central part 8 of the back 9. Bends 10 continue to form the supports 4, which supports are threaded into T connections 11 at the "arm" ends at 12 of the said T connections. The rear legs 13 are threaded into the T connections 11 at the "arm" ends at 14, are continued to form the curve 15, are continued to form the bottom 16, are continued to form the smaller curve 17, are continued to form the front legs 18, are continued to form another curve 19, and terminate in horizontal members 20, which members are rigidly secured by screws 21 to the rear part 22 of the extension 23, forming a part of the seat 24. The bar 25 is threaded at each end into the "trees" 26 of the T connections 11, and screws 27 rigidly secure the bar 25 to the rear under side 28 of the seat 24, the bar 25 thereby forming a substantial brace. Additional braces 29, rigidly secured to the arm rest supports 4 immediately below the bend 30, are secured to the sides 31 of the seat 24 by screws 32 and are also secured near the front under sides 33 by screws 34. A metal strip

35 under the rods 6 adds to the rigidity of construction, and a cover 36 over the rods 6 adds a finished appearance. The arm rest 3 and the bend 10 connecting the arm rest 3 and support 4 affords the flexibility which adds to the comfort of the user.

Additional braces 37 may be secured at one end to the front legs 18 and at the opposite end to the part 22, comprising part of the seat 24, if desired, thus making the lower part of the chair frame still more rigid. The upper part 2, consisting of the arm rests 3 and supports 4, may be made in one piece, and the lower part, consisting of the front legs 18, back legs 13, and the bottom 16, may be made in one piece if desired, in the interest of economy of manufacture.

Many minor changes in the form, order, and arrangement of parts may be made without departing from the spirit of this invention or the scope of the appended claims.

Having thus described this invention what is claimed and desired to be secured by Letters Patent is:

1. A chair of the kind described comprising two side frames composed of spring bar metal and each including a base portion and upwardly converging rear and front legs integrally connected therewith, an upper portion including an approximately horizontal arm rest and a rearwardly and downwardly inclined support having its upper end connected with the forward end of said arm rest and its lower end connected with said rear leg, a back attached to the rear ends of said arm rests, a seat having its front end attached to the upper ends of said front legs, and a bar attached to said rear legs and to the rear margin of said seat and cooperating with said front legs to support said seat substantially below said arm rests and said back.

2. A chair of the kind described comprising two side frames composed of spring bar metal and each including a base portion and upwardly converging rear and front legs integrally connected therewith, an upper portion including an approximately horizontal arm rest and a rearwardly and downwardly inclined support having its upper end connected with the forward end of said arm rests, means holding the lower ends of said supports in connection with the upper ends of said rear legs respectively, inwardly extended portions integrally connected with the rear ends of said arm rests, a back attached to the front of said inwardly extended portions, a seat having its rear end extending between said

supports, a rod attached to said rear legs supporting the rear end of said seat, and means attaching the front end of said seat to the upper ends of said front legs.

- 5 3. A chair of the kind described comprising two side frames composed of bar metal and each including a base portion and upwardly converging rear and front legs integrally connected therewith, an upper spring bar metal portion including an approximately horizontal arm rest and
10 a rearwardly and downwardly inclined support having its upper end flexibly connected with

the forward end of said arm rest, means securing the lower end of said supports to the upper ends of said rear legs respectively, a transverse bar supported by said means, a seat having its rear end extending between said supports and attached to said bar and having its front portion attached to the upper ends of said front legs, and a back attached to the rear ends of said arm rests and spaced substantially above the rear end of said seat.

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